FUNAI

SERVICE MANUAL

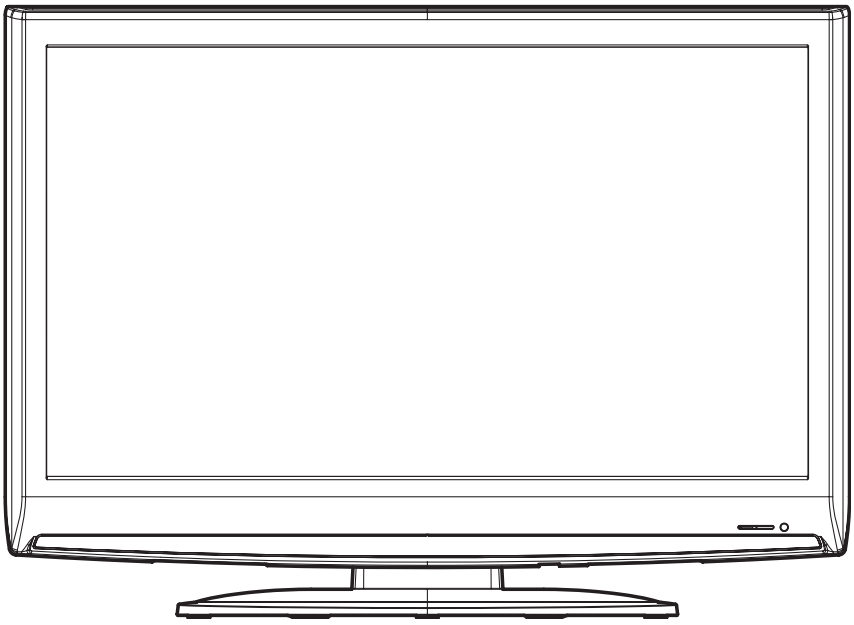
This Service Manual is for the LT6-M32BB(A8CF0EP) model. For the LT6-M32BB(A8CF0EP) model, the letter (A8CF0EP) is printed on the Serial No. Label. Refer to the Serial No. Label on the right.

Serial No. Label

"A8CF0EP"

32″ COLOR LCD TELEVISION

LT6-M32BB



32″ COLOR LCD TELEVISION

LT6-M32BB

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The LCD panel is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a tiny spec of color. This is not to be considered a defect in the LCD screen.

SPECIFICATIONS

< TUNER >

VHS/UHF Input ---------- 75Ω unbal., IEC Connector
Center IF ---------- SECAM-L 38.9MHz, SECAM-L' 33.9MHz

Description	Condition	Unit	Nominal	Limit
1. Video S/N	80	dB	---	40
2. Audio S/N	---	dB	---	40/40

< LCD PANEL >

Description	Condition	Unit	Nominal	Limit
1. Number of Pixels	Horizontal Vertical	pixels pixels	1366 768	--- ---
2. Viewing Angle	Horizontal Vertical	° °	-88 to 88 -88 to 88	--- ---

<DVB-T>

Description	Condition	Unit	Nominal	Limit
1. RECEIVED FREQ.RANGE (-60dBm, 45ch.) *1	+ -	kHz kHz	T.B.D T.B.D	500 -150
2. INPUT DYNAMIC RANGE (mix./max) *1	VHF HIGH 7ch. UHF 45ch.	dBm dBm	T.B.D T.B.D	-75/-10 -75/-10
3. C/N PERFORMANCE *1	VHF HIGH 7ch. UHF 45ch.	dB dB	T.B.D T.B.D	≦18 ≦18
4. MULTIPATH a. Performance with short delay echoes b. Performance with long delay echoes c. C/N Performance on 0dB echo channel (14μs)	UHF 45ch. ①:*2 ②:*3 ①:*2 ②:*3 ①:*1	 dB dB dB dB dB	 T.B.D T.B.D T.B.D T.B.D T.B.D	 ≦23 ≦20 ≦23 ≦18 ≦24

*1: modulation parameters = [8k 64QAM CR=2/3 GI=1/32]
*2: modulation parameters = [2k 64QAM CR=2/3 GI=1/32]
*3: modulation parameters = [2k 16QAM CR=3/4 GI=1/32]

< VIDEO >

Description	Condition	Unit	Nominal	Limit
1. Over Scan	Horizontal Vertical	% %	5 5	±5 ±5
2. Color Temperature	AT 70% WHITE FIELD x y	°K	12000 0.272 0.278	--- ±0.005 ±0.005
3. Resolution	Horizontal Vertical	line line	400 350	--- ---
4. Brightness	AT 100% WHITE FIELD	cd/m^2	320	---

< AUDIO >

All items are measured across 16 Ω load at speaker output terminal.

Description	Condition	Unit	Nominal	Limit
1. Audio Output Power	10% THD: Lch/Rch	W	5.0/5.0	4.0/4.0
2. Audio Distortion	500mW: Lch/Rch	%	1.5/1.5	3.0/3.0
3. Audio Freq. Response	–6dB: Lch –6dB: Rch	Hz Hz	70 to 8 k 70 to 8 k	--- ---
4. Audio S/N	VIDEO1 VIDEO2	dB dB	--- ---	>45/45 >45/45

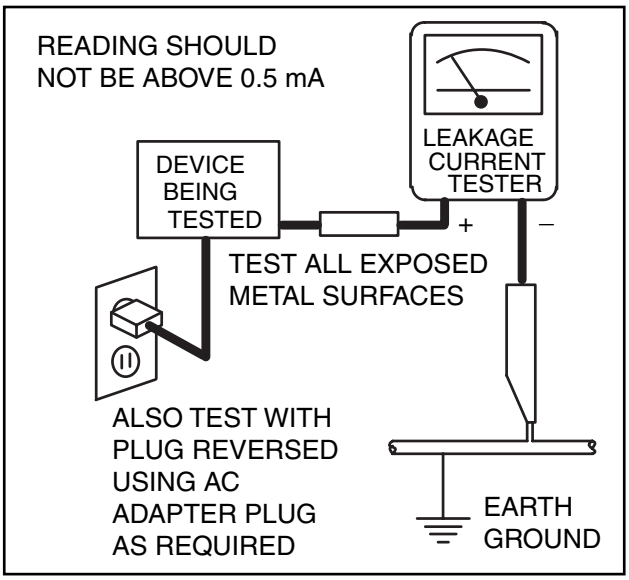
Note: Nominal specifications represent the design specifications. All units should be able to approximate these. Some will exceed and some may drop slightly below these specifications. Limit specifications represent the absolute worst condition that still might be considered acceptable. In no case should a unit fail to meet limit specifications.

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, our products are strictly inspected for recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Safety Precautions for LCD TV Circuit

1. **Before returning an instrument to the customer,** always make a safety check of the entire instrument, including, but not limited to, the following items:
   - **a.** Be sure that no built-in protective devices are defective and have been defeated during servicing. (1) Protective shields are provided on this chassis to protect both the technician and the customer. Correctly replace all missing protective shields, including any removed for servicing convenience. (2) When reinstalling the chassis and/or other assembly in the cabinet, be sure to put back in place all protective devices, including but not limited to, nonmetallic control knobs, insulating fishpapers, adjustment and compartment covers/shields, and isolation resistor/capacitor networks. **Do not operate this instrument or permit it to be operated without all protective devices correctly installed and functioning. Servicers who defeat safety features or fail to perform safety checks may be liable for any resulting damage.**
   - **b.** Be sure that there are no cabinet openings through which an adult or child might be able to insert their fingers and contact a hazardous voltage. Such openings include, but are not limited to, (1) spacing between the LCD module and the cabinet mask, (2) excessively wide cabinet ventilation slots, and (3) an improperly fitted and/or incorrectly secured cabinet back cover.
   - **c. Antenna Cold Check -** With the instrument AC plug removed from any AC source, connect an electrical jumper across the two AC plug prongs. Place the instrument AC switch in the on position. Connect one lead of an ohmmeter to the AC plug prongs tied together and touch the other ohmmeter lead in turn to each tuner antenna input exposed terminal screw and, if applicable, to the coaxial connector. If the measured resistance is less than 1.0 megohm or greater than 5.2 megohm, an abnormality exists that must be corrected before the instrument is returned to the customer. Repeat this test with the instrument AC switch in the off position.
   - **d. Leakage Current Hot Check -** With the instrument completely reassembled, plug the AC line cord directly into a 230 V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI) C101.1 Leakage Current for Appliances and Underwriters Laboratories (UL) 1410, (50.7). With the instrument AC switch first in the on position and then in the off position, measure from a known earth ground (metal water pipe, conduit, etc.) to all exposed metal parts of the instrument (antennas, handle brackets, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 milli-ampere. Reverse the instrument power cord plug in the outlet and repeat the test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS SPECIFIED HEREIN INDICATE A POTENTIAL SHOCK HAZARD THAT MUST BE ELIMINATED BEFORE RETURNING THE INSTRUMENT TO THE CUSTOMER OR BEFORE CONNECTING THE ANTENNA OR ACCESSORIES.

2. Read and comply with all caution and safety-related notes on or inside the receiver cabinet, on the receiver chassis, or on the LCD module.
3. **Design Alteration Warning -** Do not alter or add to the mechanical or electrical design of this LCD TV receiver. Design alterations and additions, including, but not limited to circuit modifications and the addition of items such as auxiliary audio and/or video output connections, might alter the safety characteristics of this receiver and create a hazard to the user. Any design alterations or additions will void the manufacturer's warranty and may make you, the servicer, responsible for personal injury or property damage resulting therefrom.

4. **Hot Chassis Warning -**
   a. Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord and maybe safety-serviced without an isolation transformer only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC power source. To confirm that the AC power plug is inserted correctly, with an AC voltmeter, measure between the chassis and a known earth ground. If a voltage reading in excess of 1.0 V is obtained, remove and reinsert the AC power plug in the opposite polarity and again measure the voltage potential between the chassis and a known earth ground.
   b. Some TV receiver chassis normally have 85V AC(RMS) between chassis and earth ground regardless of the AC plug polarity. This chassis can be safety-serviced only with an isolation transformer inserted in the power line between the receiver and the AC power source, for both personnel and test equipment protection.
   c. Some TV receiver chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulation material that must not be defeated or altered.
5. Observe original lead dress. Take extra care to assure correct lead dress in the following areas: a. near sharp edges, b. near thermally hot parts-be sure that leads and components do not touch thermally hot parts, c. the AC supply, d. high voltage, and, e. antenna wiring. Always inspect in all areas for pinched, out of place, or frayed wiring. Check AC power cord for damage.
6. Components, parts, and/or wiring that appear to have overheated or are otherwise damaged should be replaced with components, parts, or wiring that meet original specifications. Additionally, determine the cause of overheating and/or damage and, if necessary, take corrective action to remove any potential safety hazard.
7. **Product Safety Notice -** Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection, nor can the protection they give necessarily be obtained by replacing them with components rated for higher voltage, wattage, etc.. Parts that have special safety characteristics are identified by a ⚠ on schematics and in parts lists. Use of a substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire, and/or other hazards. The product's safety is under review continuously and new instructions are issued whenever appropriate. Prior to shipment from the factory, our products are strictly inspected to confirm they comply with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

Precautions during Servicing

A. Parts identified by the ⚠ symbol are critical for safety.
Replace only with part number specified.

B. In addition to safety, other parts and assemblies are specified for conformance with regulations applying to spurious radiation. These must also be replaced only with specified replacements.
Examples: RF converters, RF cables, noise blocking capacitors, and noise blocking filters, etc.

C. Use specified internal wiring. Note especially:

1) Wires covered with PVC tubing
2) Double insulated wires
3) High voltage leads

D. Use specified insulating materials for hazardous live parts. Note especially:

1) Insulation Tape
2) PVC tubing
3) Spacers
4) Insulators for transistors.

E. When replacing AC primary side components (transformers, power cord, etc.), wrap ends of wires securely about the terminals before soldering.

F. Observe that the wires do not contact heat producing parts (heat sinks, oxide metal film resistors, fusible resistors, etc.)

G. Check that replaced wires do not contact sharp edged or pointed parts.

H. When a power cord has been replaced, check that 5~6 kg of force in any direction will not loosen it.

I. Also check areas surrounding repaired locations.

J. Use care that foreign objects (screws, solder droplets, etc.) do not remain inside the set.

K. When connecting or disconnecting the internal connectors, first, disconnect the AC plug from the AC supply outlet.

L. When installing parts or assembling the cabinet parts, be sure to use the proper screws and tighten certainly.

Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Clearance Distance

When replacing primary circuit components, confirm specified clearance distance (d) and (d') between soldered terminals, and between terminals and surrounding metallic parts. (See Fig. 1)

Table 1 : Ratings for selected area

AC Line Voltage	Clearance Distance (d), (d')
220 to 240 V	≥ 3mm(d) ≥ 6 mm(d')

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

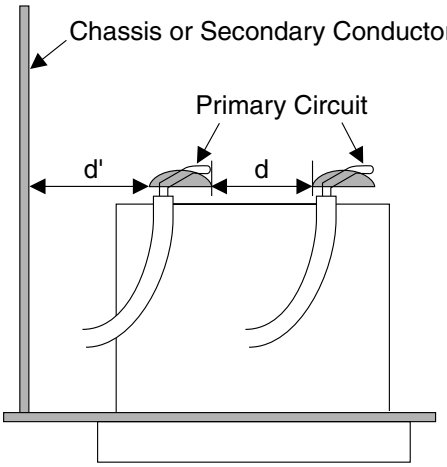


Fig. 1

2. Leakage Current Test

Confirm the specified (or lower) leakage current between B (earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method : (Power ON)

Insert load Z between B (earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See Fig. 2 and following table.

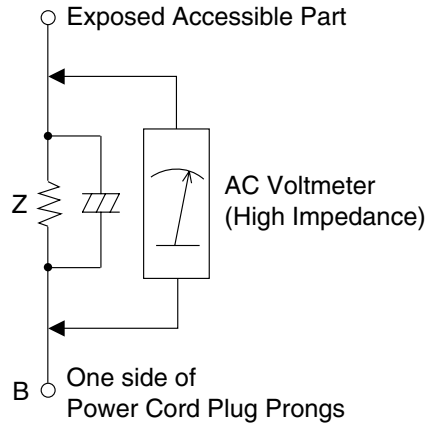


Fig. 2

Table 2: Leakage current ratings for selected areas

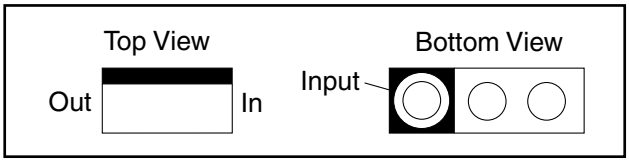
AC Line Voltage	Load Z	Leakage Current (i)	One side of power cord plug prongs (B) to:
220 to 240 V	2kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	RF or Antenna terminals
	50kΩ RES. Connected in parallel	i≤0.7mA AC Peak i≤2mA DC	A/V Input, Output

Note: This table is unofficial and for reference only. Be sure to confirm the precise values.

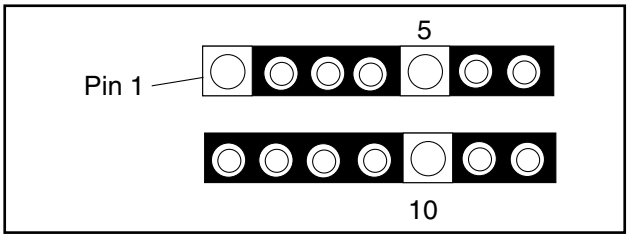
STANDARD NOTES FOR SERVICING

Circuit Board Indications

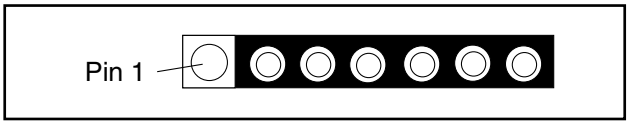
1. The output pin of the 3 pin Regulator ICs is indicated as shown.



2. For other ICs, pin 1 and every fifth pin are indicated as shown.

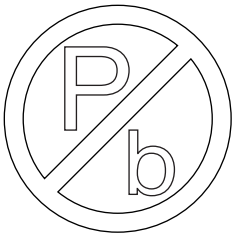


3. The 1st pin of every male connector is indicated as shown.



Pb (Lead) Free Solder

Pb free mark will be found on PCBs which use Pb free solder. (Refer to figure.) For PCBs with Pb free mark, be sure to use Pb free solder. For PCBs without Pb free mark, use standard solder.



Pb free mark

How to Remove / Install Flat Pack-IC

1. Removal

With Hot-Air Flat Pack-IC Desoldering Machine:

1. Prepare the hot-air flat pack-IC desoldering machine, then apply hot air to the Flat Pack-IC (about 5 to 6 seconds). (Fig. S-1-1)

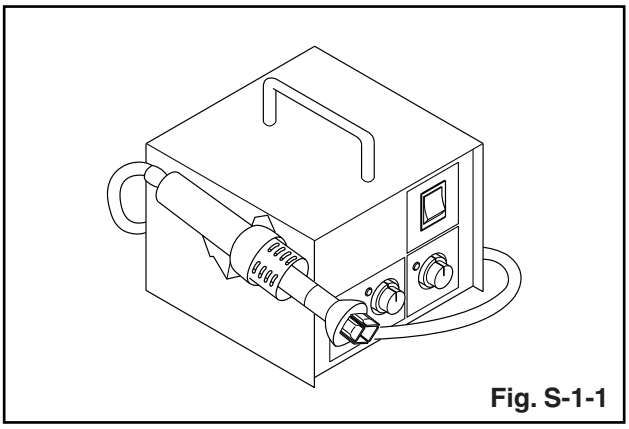


Fig. S-1-1

2. Remove the flat pack-IC with tweezers while applying the hot air.
3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

CAUTION:

1. The Flat Pack-IC shape may differ by models. Use an appropriate hot-air flat pack-IC desoldering machine, whose shape matches that of the Flat Pack-IC.
2. Do not supply hot air to the chip parts around the flat pack-IC for over 6 seconds because damage to the chip parts may occur. Put masking tape around the flat pack-IC to protect other parts from damage. (Fig. S-1-2)
3. The flat pack-IC on the CBA is affixed with glue, so be careful not to break or damage the foil of each pin or the solder lands under the IC when removing it.

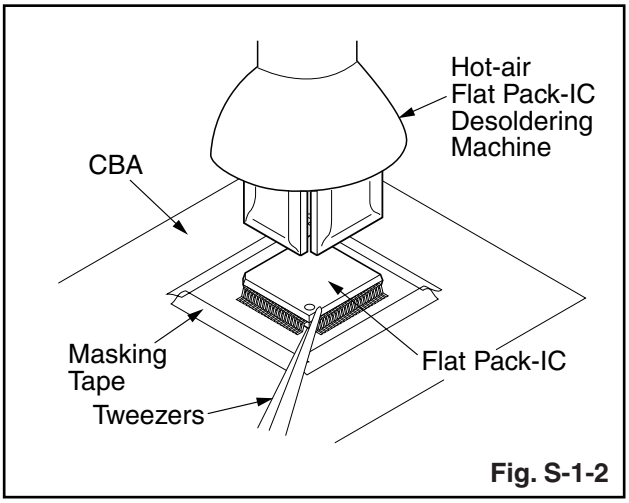


Fig. S-1-2

With Soldering Iron:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)

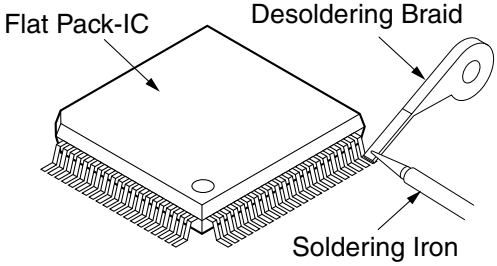


Fig. S-1-3

2. Lift each lead of the flat pack-IC upward one by one, using a sharp pin or wire to which solder will not adhere (iron wire). When heating the pins, use a fine tip soldering iron or a hot air desoldering machine. (Fig. S-1-4)

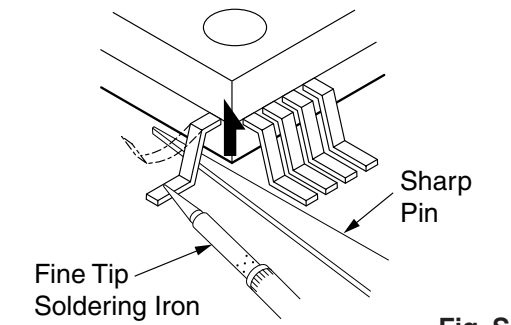


Fig. S-1-4

3. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
4. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

With Iron Wire:

1. Using desoldering braid, remove the solder from all pins of the flat pack-IC. When you use solder flux which is applied to all pins of the flat pack-IC, you can remove it easily. (Fig. S-1-3)
2. Affix the wire to a workbench or solid mounting point, as shown in Fig. S-1-5.
3. While heating the pins using a fine tip soldering iron or hot air blower, pull up the wire as the solder melts so as to lift the IC leads from the CBA contact pads as shown in Fig. S-1-5.
4. Bottom of the flat pack-IC is fixed with glue to the CBA; when removing entire flat pack-IC, first apply soldering iron to center of the flat pack-IC and heat up. Then remove (glue will be melted). (Fig. S-1-6)
5. Release the flat pack-IC from the CBA using tweezers. (Fig. S-1-6)

Note: When using a soldering iron, care must be taken to ensure that the flat pack-IC is not being held by glue. When the flat pack-IC is removed from the CBA, handle it gently because it may be damaged if force is applied.

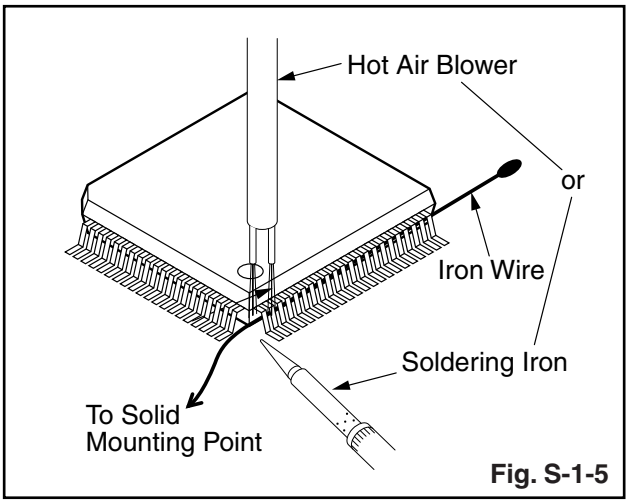


Fig. S-1-5

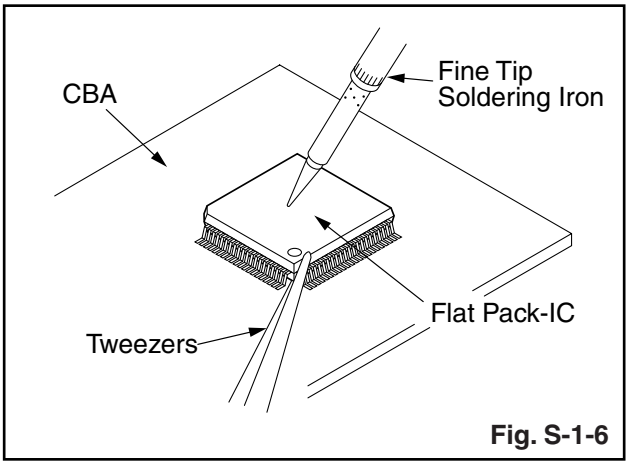


Fig. S-1-6

2. Installation

1. Using desoldering braid, remove the solder from the foil of each pin of the flat pack-IC on the CBA so you can install a replacement flat pack-IC more easily.
2. The "●" mark on the flat pack-IC indicates pin 1. (See Fig. S-1-7.) Be sure this mark matches the 1 on the PCB when positioning for installation. Then presolder the four corners of the flat pack-IC. (See Fig. S-1-8.)
3. Solder all pins of the flat pack-IC. Be sure that none of the pins have solder bridges.

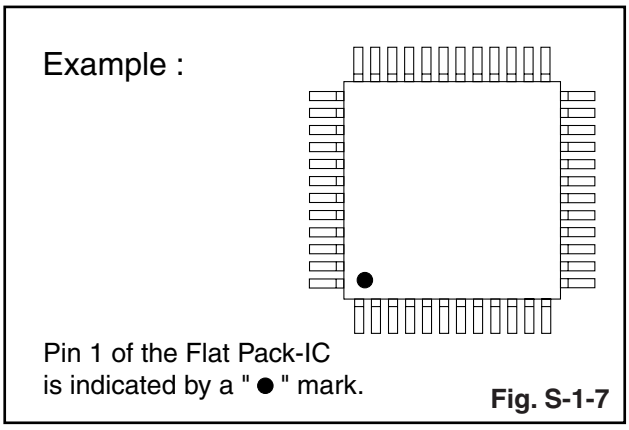


Fig. S-1-7

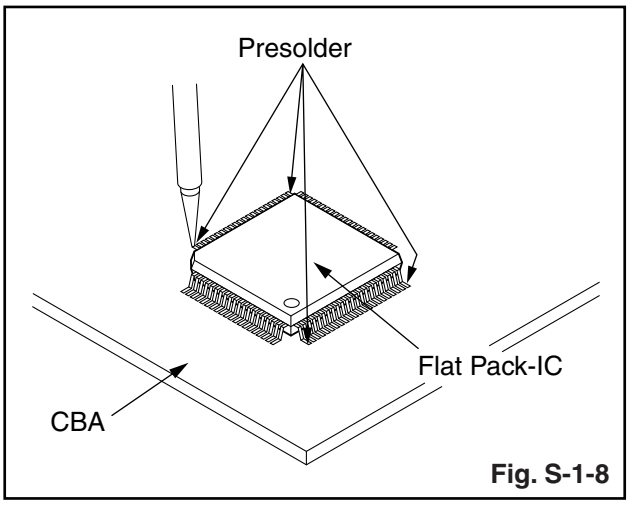


Fig. S-1-8

Instructions for Handling Semi-conductors

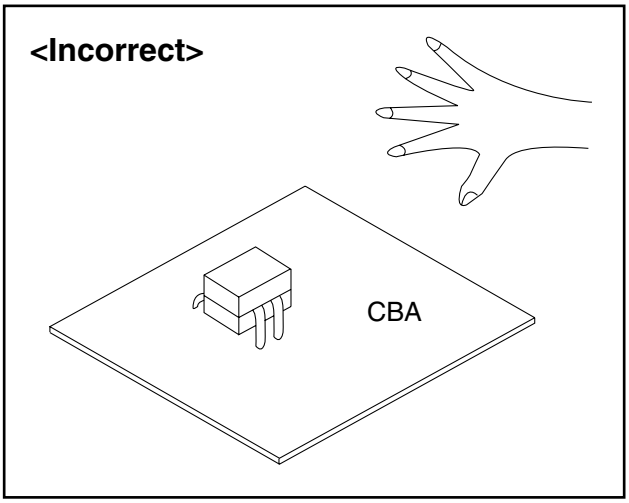
Electrostatic breakdown of the semi-conductors may occur due to a potential difference caused by electrostatic charge during unpacking or repair work.

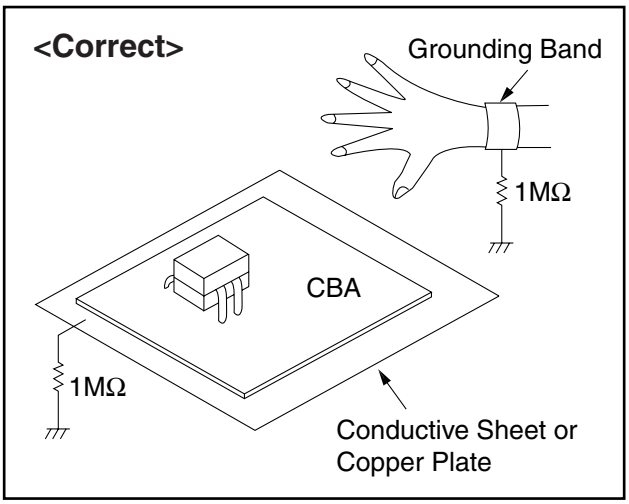
1. Ground for Human Body

Be sure to wear a grounding band (1 MΩ) that is properly grounded to remove any static electricity that may be charged on the body.

2. Ground for Workbench

Be sure to place a conductive sheet or copper plate with proper grounding (1 MΩ) on the workbench or other surface, where the semi-conductors are to be placed. Because the static electricity charge on clothing will not escape through the body grounding band, be careful to avoid contacting semi-conductors with your clothing.

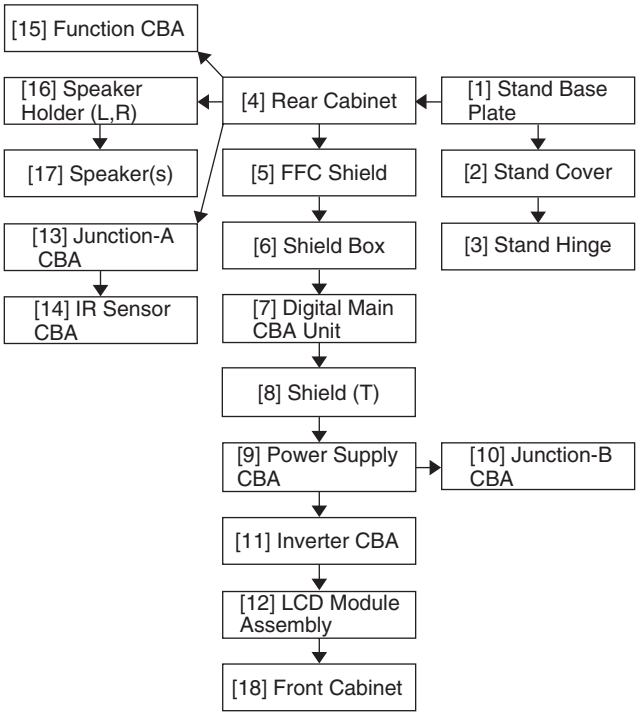




CABINET DISASSEMBLY INSTRUCTIONS

1. Disassembly Flowchart

This flowchart indicates the disassembly steps for the cabinet parts, and the CBA in order to gain access to item(s) to be serviced. When reassembling, follow the steps in reverse order. Bend, route and dress the cables as they were.



2. Disassembly Method

Step/ Loc. No.	Part	Removal		
		Fig. No.	Remove/*Unhook/ Unlock/Release/ Unplug/Unclamp/ Desolder	Note
[1]	Stand Base Plate	D1	4(S-1), 3(S-2), 4(S-3)	---
[2]	Stand Cover	D1	----------	---
[3]	Stand Hinge	D1	----------	---
[4]	Rear Cabinet	D1	12(S-4), (S-5), 2(S-6)	---
[5]	FFC Shield	D2	2(S-7)	---
[6]	Shield Box	D2 D4	2(S-8), 7(S-9), 4(S-10), *CN3601, *CN3701, *CN3704, *CN4501, *CN4502, *CN4503	---
[7]	Digital Main CBA Unit	D2 D4	2(S-11), Connector IC Card OSU	---
[8]	Shield (T)	D2	(S-12)	---
[9]	Power Supply CBA	D2 D4	3(S-13), 6(S-14), *CN102, *CN801, *CN802, *CN1000, *CN1901	---
[10]	Junction-B CBA	D2 D4	*CN803B	---
[11]	Inverter CBA	D3 D4	3(S-15), 6(S-16), *CN1050, *CN1100, *CN1150, *CN1200, *CN1250	---
[12]	LCD Module Assembly	D3	4(S-17)	---
[13]	Junction-A CBA	D3 D4	*CL101B	---
[14]	IR Sensor CBA	D3 D4	2(S-18), *CL102A	---
[15]	Function CBA	D3 D4	2(S-19)	---
[16]	Speaker Holder (L,R)	D3	4(S-20)	---
[17]	Speaker(s)	D3	----------	---
[18]	Front Cabinet	D3	----------	---
		↓ (3)	↓ (4)	↓ (5)

↓ (1) ↓ (2)

Note:

(1) Order of steps in procedure. When reassembling, follow the steps in reverse order. These numbers are also used as the Identification (location) No. of parts in figures.

(2) Parts to be removed or installed.

(3) Fig. No. showing procedure of part location

(4) Identification of parts to be removed, unhooked, unlocked, released, unplugged, unclamped, or desoldered.
N = Nut, L = Locking Tab, S = Screw,
CN = Connector
* = Unhook, Unlock, Release, Unplug, or Desolder
e.g. 2(S-2) = two Screws (S-2),
2(L-2) = two Locking Tabs (L-2)

(5) Refer to the following "Reference Notes in the Table."

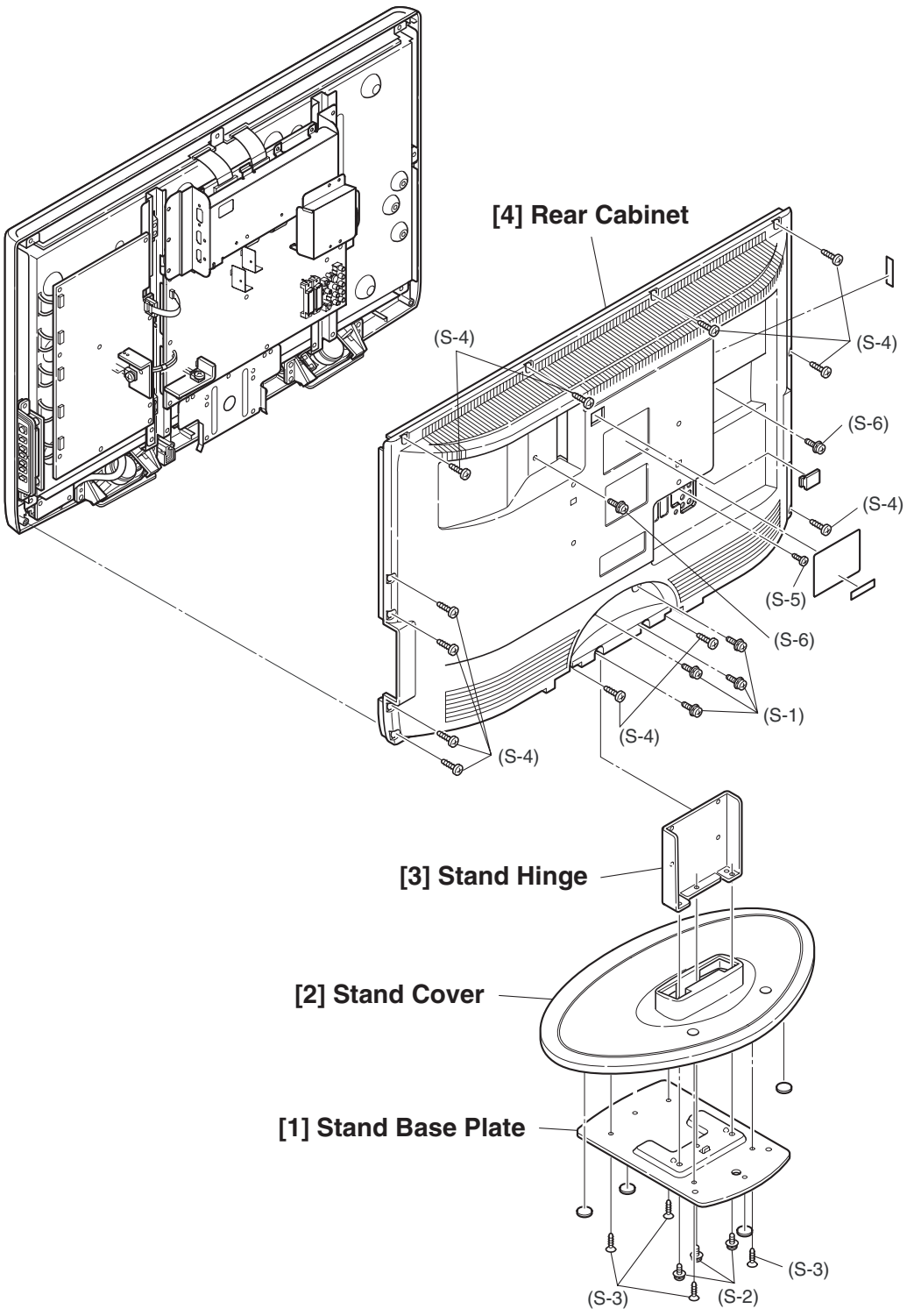

[4] Rear Cabinet
(S-4)
(S-4)
(S-6)
(S-4)
(S-5)
(S-6)
(S-1)
(S-4)
(S-4)
[3] Stand Hinge
[2] Stand Cover
[1] Stand Base Plate
(S-3)
(S-3)
(S-2)

Fig. D1

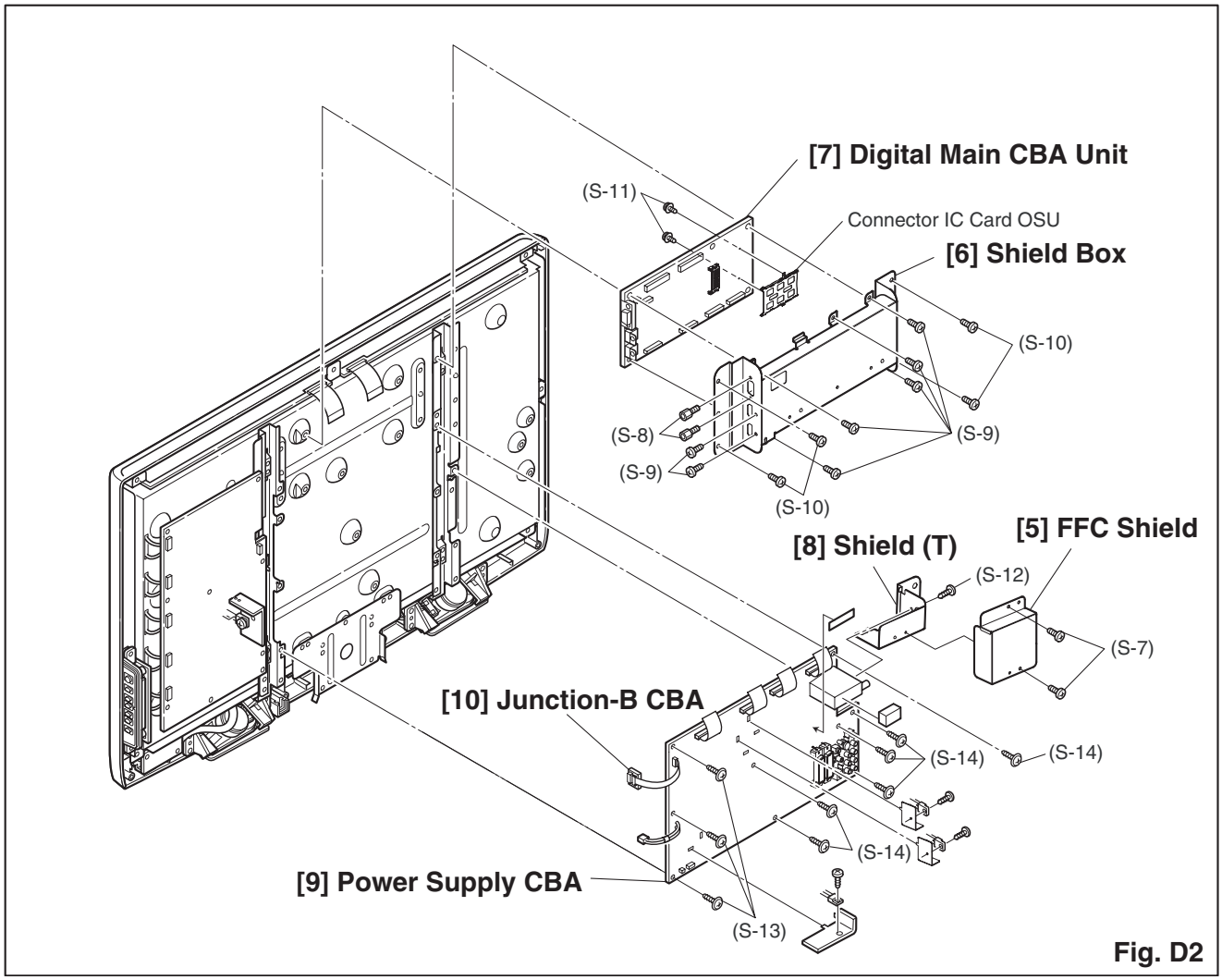

[7] Digital Main CBA Unit
(S-11)
Connector IC Card OSU
[6] Shield Box
(S-10)
(S-8)
(S-9)
(S-9)
(S-10)
[8] Shield (T)
[5] FFC Shield
(S-12)
(S-7)
[10] Junction-B CBA
(S-14)
(S-14)
(S-14)
[9] Power Supply CBA
(S-13)

Fig. D2

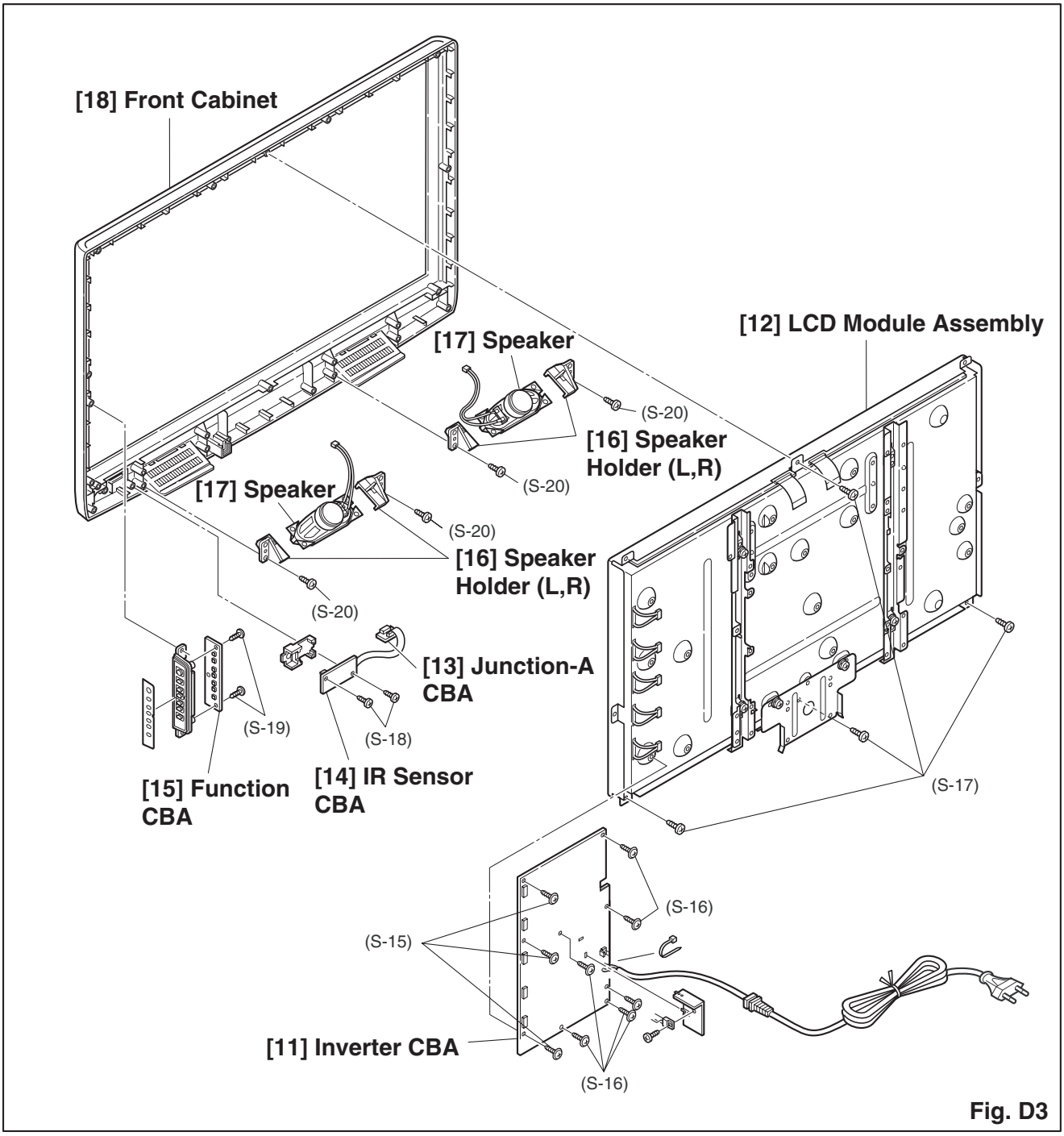

[18] Front Cabinet
[12] LCD Module Assembly
[17] Speaker
(S-20)
[16] Speaker Holder (L,R)
(S-20)
[17] Speaker
(S-20)
[16] Speaker Holder (L,R)
(S-20)
[13] Junction-A CBA
(S-19)
(S-18)
[15] Function CBA
[14] IR Sensor CBA
(S-17)
(S-16)
(S-15)
[11] Inverter CBA
(S-16)

Fig. D3

TV Cable Wiring Diagram

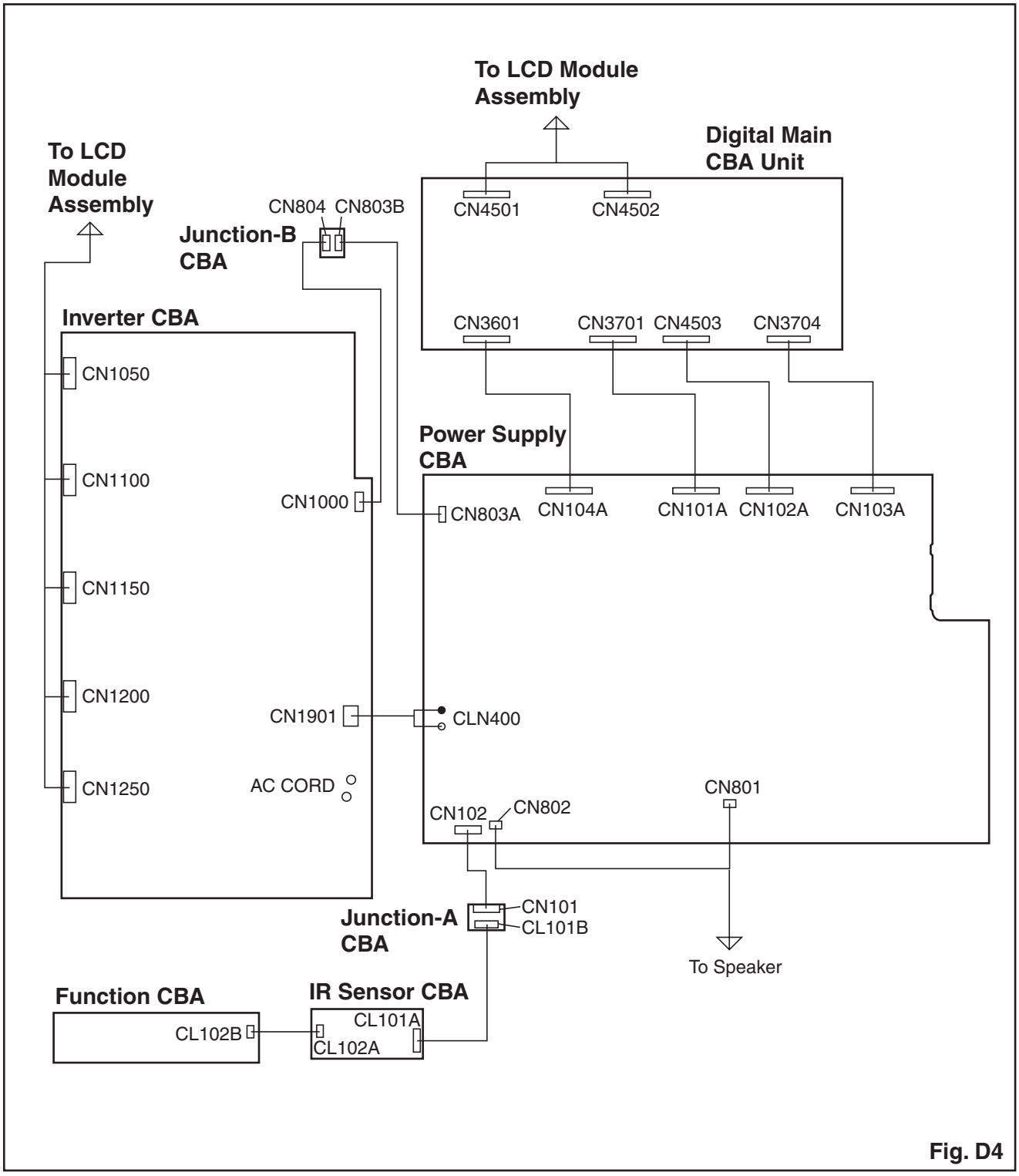


Fig. D4

ELECTRICAL ADJUSTMENT INSTRUCTIONS

General Note: “CBA” is abbreviation for “Circuit Board Assembly.”

Note: Electrical adjustments are required after replacing circuit components and certain mechanical parts. It is important to perform these adjustments only after all repairs and replacements have been completed.
Also, do not attempt these adjustments unless the proper equipment is available.

Test Equipment Required

1. DC Voltmeter
2. Pattern Generato
3. Color Analyzer

How to make the Service remote control unit:

Cut “A” portion of the attached remote control unit as shown in Fig. 1.

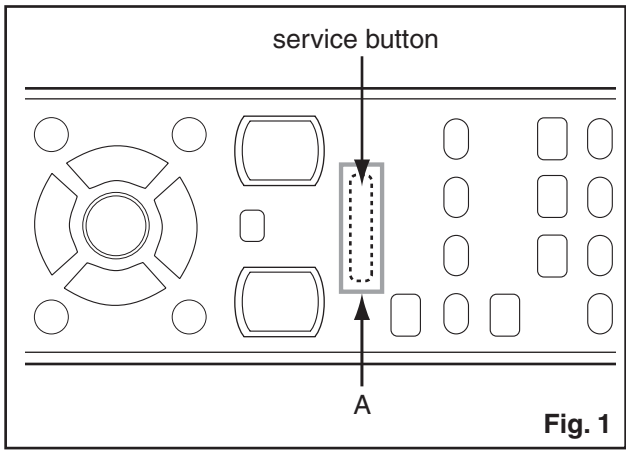


Fig. 1

How to set up the service mode:

Service mode:

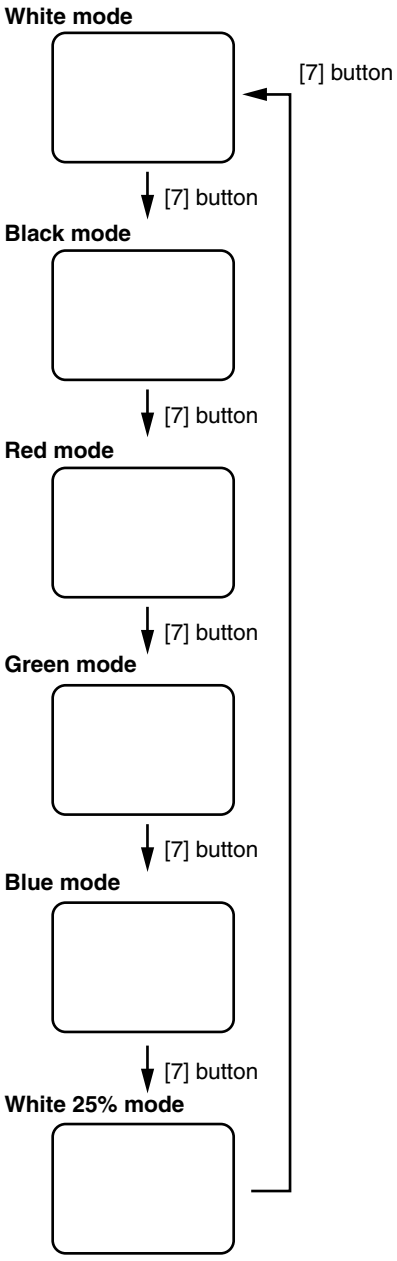
1. Use the service remote control unit.
2. Turn the power on.
3. Press the service button on the service remote control unit as shown in Fig.1.

1. Purity Check Mode

This mode cycles through full-screen displays of red, green, blue, and white to check for non-active pixels.

1. Enter the Service mode.
2. Each time pressing [7] button on the service remote control unit, the display changes as follows.

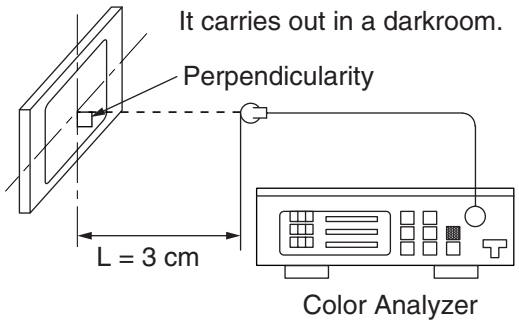
Purity Check Mode



Note:
When entering this mode, the default setting is White mode.

2. VCOM Adjustment.

Test Point	Adj. Point
Screen	[P ∧ / ∨] buttons
M. EQ.	**Spec.**
Color analyzer	See below
Figure	



1. Operate the unit for more than 20 minutes.
2. Set the color analyzer and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
3. Enter the Service mode.
4. **[VCOM1]**
   Press [2] button on the service remote control unit.
   [VCOM2]
   Press [3] button on the service remote control unit.
5. Press [P ∧ / ∨] buttons on the service remote control unit so that the color analyzer value becomes minimum.

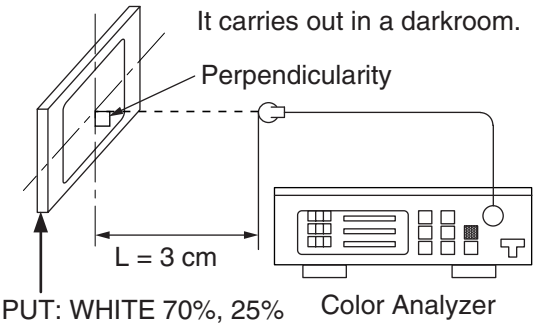
The following adjustment normally are not attempted in the field. Only when replacing the LCD Panel then adjust as a preparation.

3. White Balance Adjustment

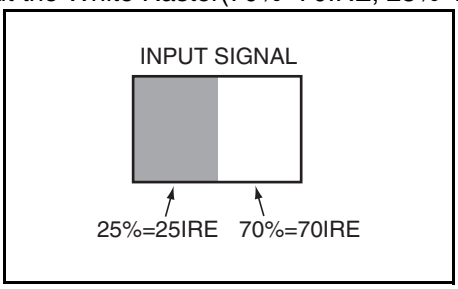
Purpose: To mix red, green and blue beams correctly for pure white.

Symptom of Misadjustment: White becomes bluish or reddish.

Test Point	Adj. Point	Mode	Input
Screen	[P ∧ / ∨] buttons	**[VIDEO]** C/D	White Raster (APL 70%) or (APL 25%)
M. EQ.		**Spec.**	
Pattern Generator, Color analyzer		x= 0.272 ± 0.005 y= 0.278 ± 0.005	
Figure			



1. Operate the unit for more than 20 minutes.
2. Input the White Raster(70%=70IRE, 25%=25IRE).



3. Set the color analyzer to the CHROMA mode and bring the optical receptor to the center on the LCD-Panel surface after zero point calibration as shown above.
   Note: The optical receptor must be set perpendicularly to the LCD Panel surface.
4. Enter the Service mode. Press [◢ -] button on the service remote control unit and select “C/D” mode.
5. **[CUTOFF]**
   Press [3] button to select “COB” for Blue Cutoff adjustment. Press [1] button to select “COR” for Red Cutoff adjustment.
   [DRIVE]
   Press [6] button to select “DB” for Blue Drive adjustment. Press [4] button to select “DR” for Red Drive adjustment.
6. In each color mode, press [P ∧ / ∨] buttons to adjust the values of color.
7. Adjust Cutoff and Drive so that the color temperature becomes 12000°K (x= 0.272 / y= 0.278 ±0.005).

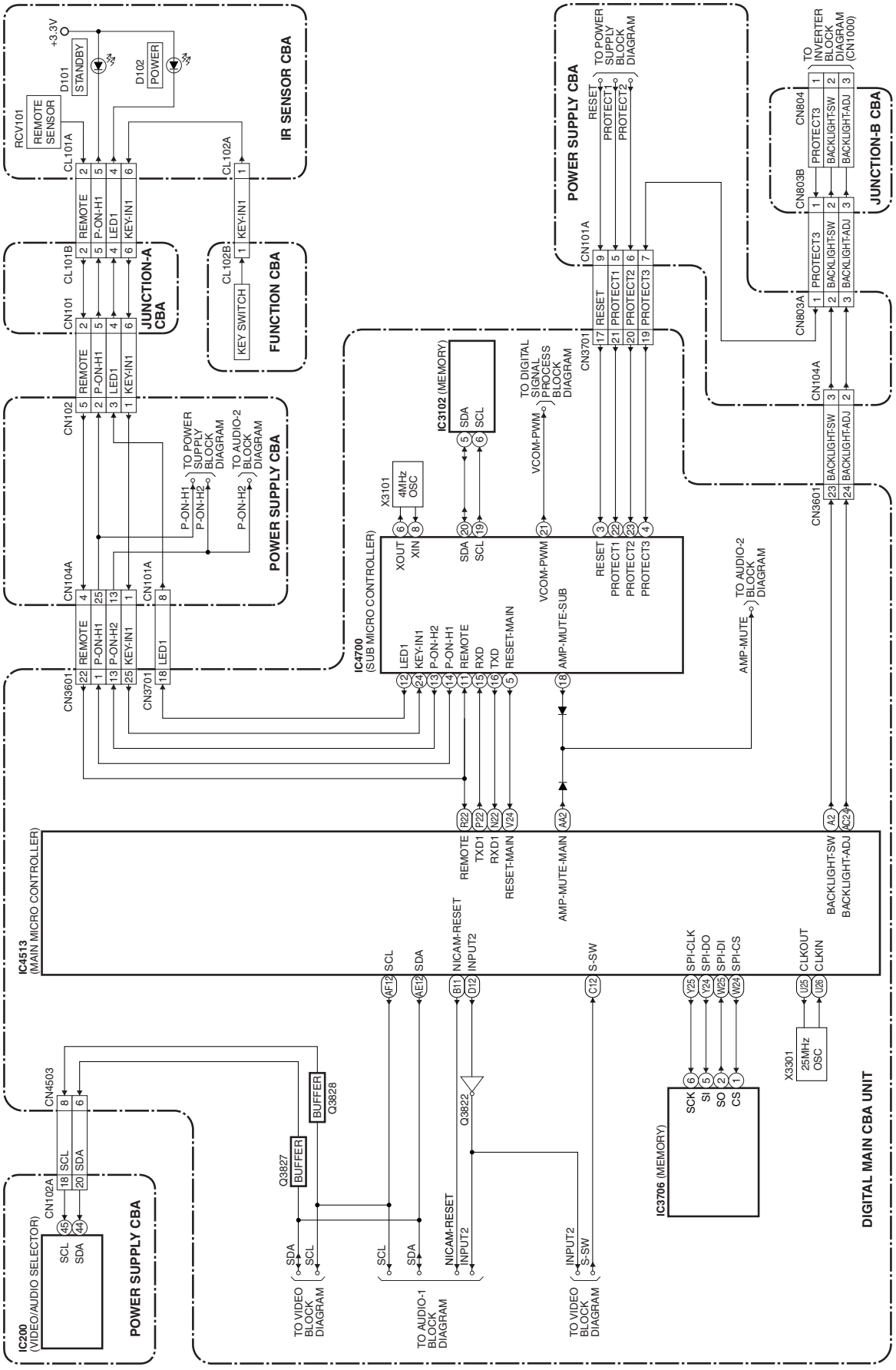
HOW TO INITIALIZE THE LCD TELEVISION

How to initialize the LCD television:

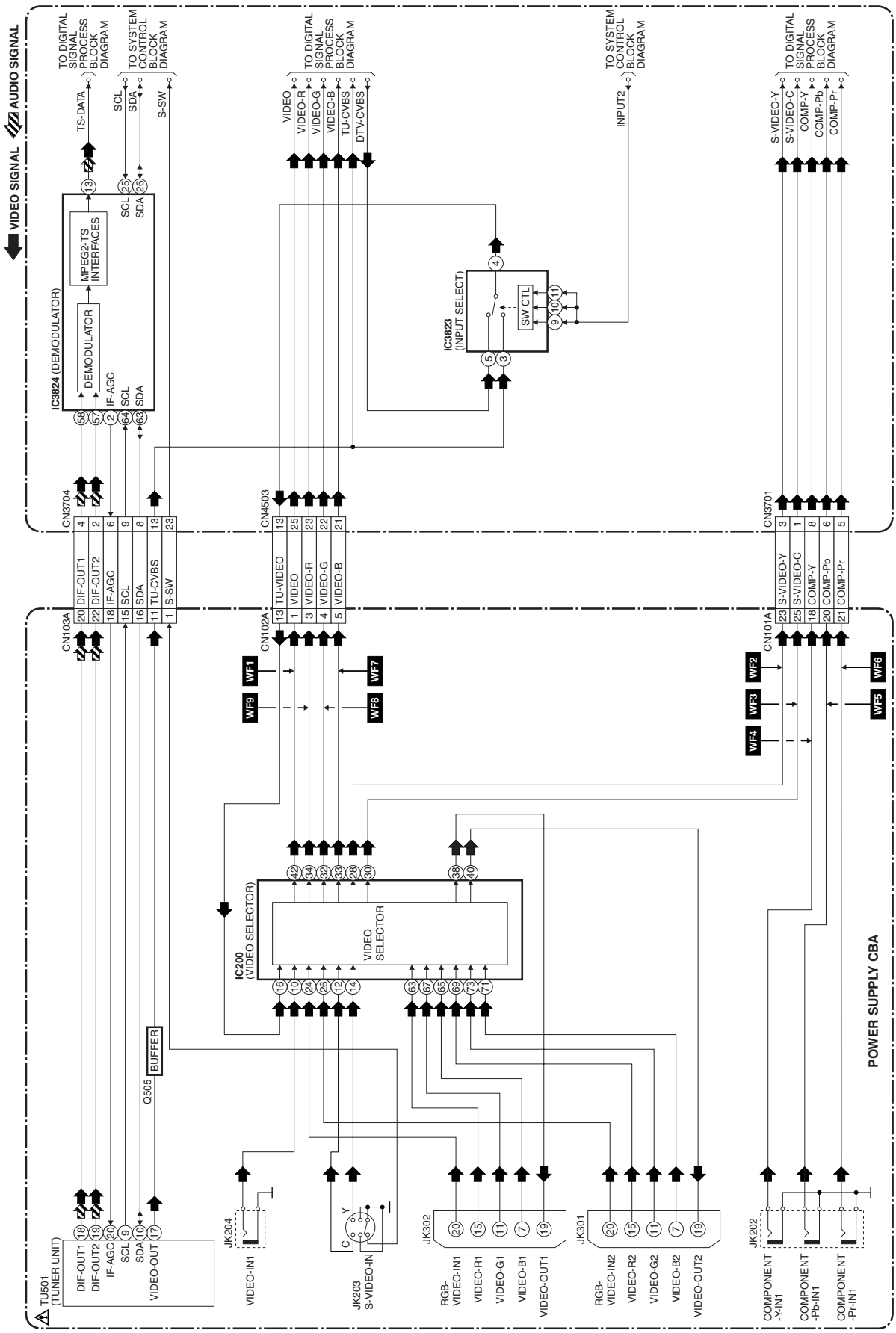
1. Turn the power on.
2. To enter the service mode, press the service button on the service remote control unit. (Refer to page 5-1.)
   - To cancel the service mode, Press [⏻] button on the remote control unit.
3. Press [i] button on the service remote control unit to initialize the LCD television.
4. "INITIALIZED" will appear in the upper right of the screen. "INITIALIZED" color will change to green from red when initializing is complete.

BLOCK DIAGRAMS

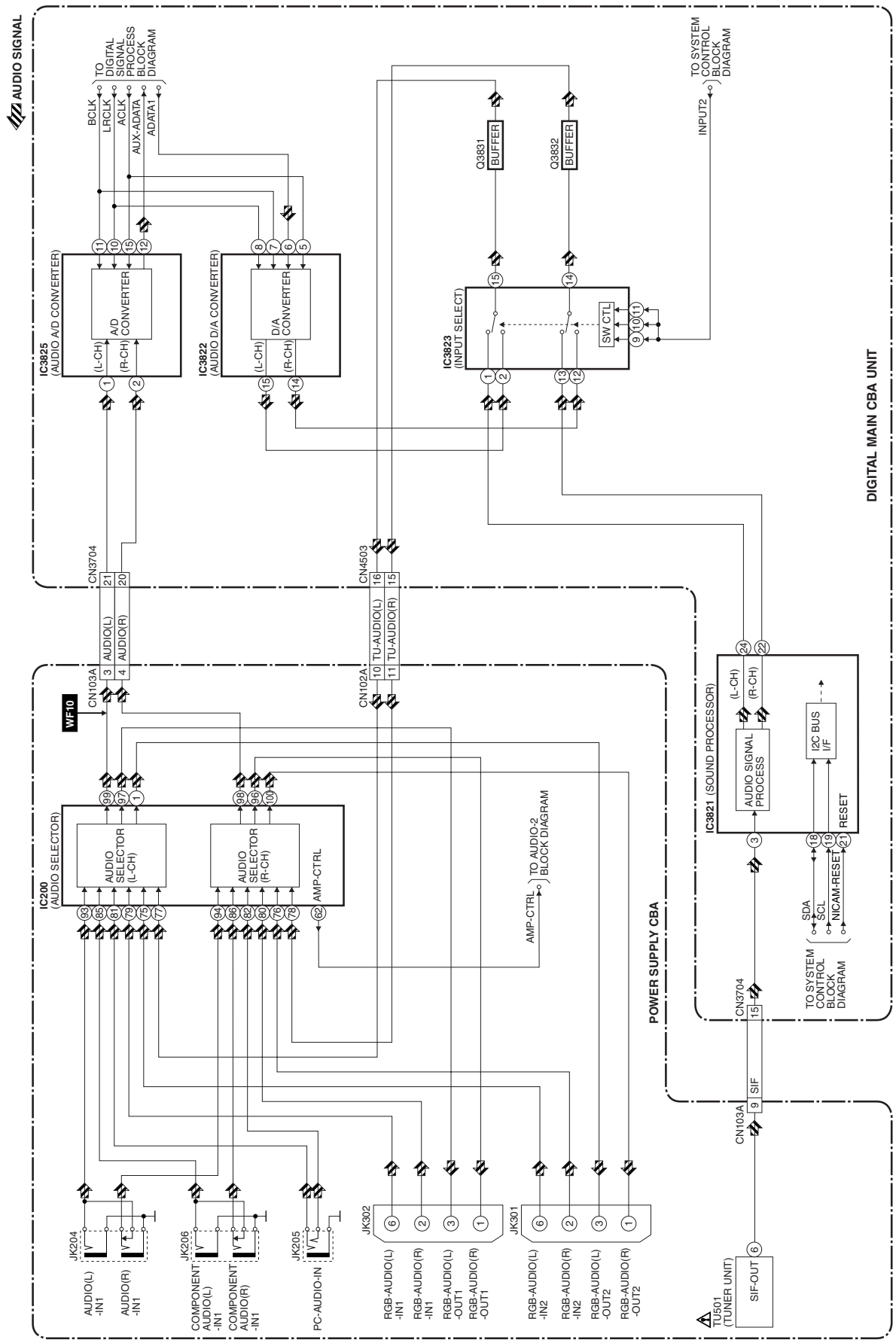
System Control Block Diagram



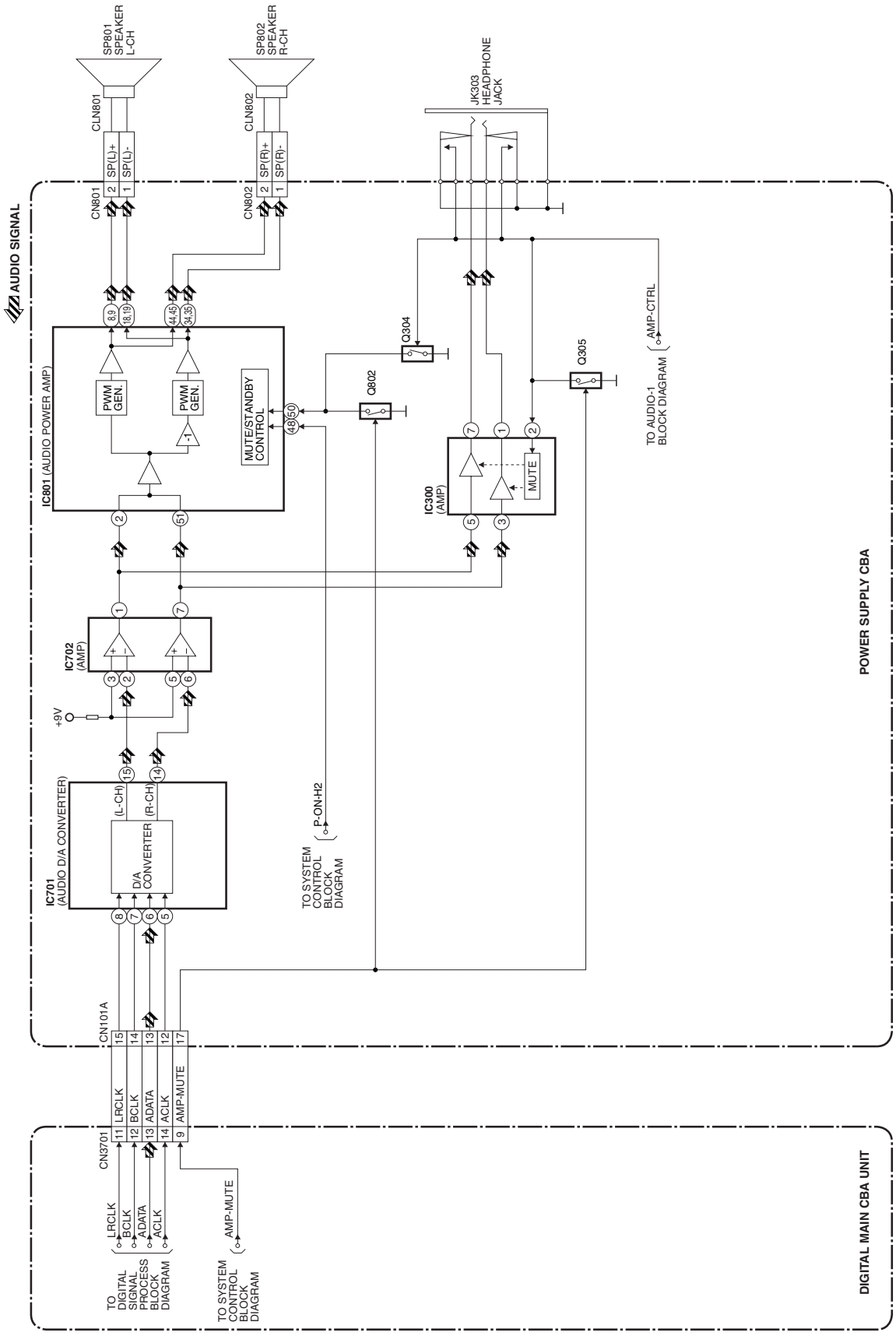
Video Block Diagram



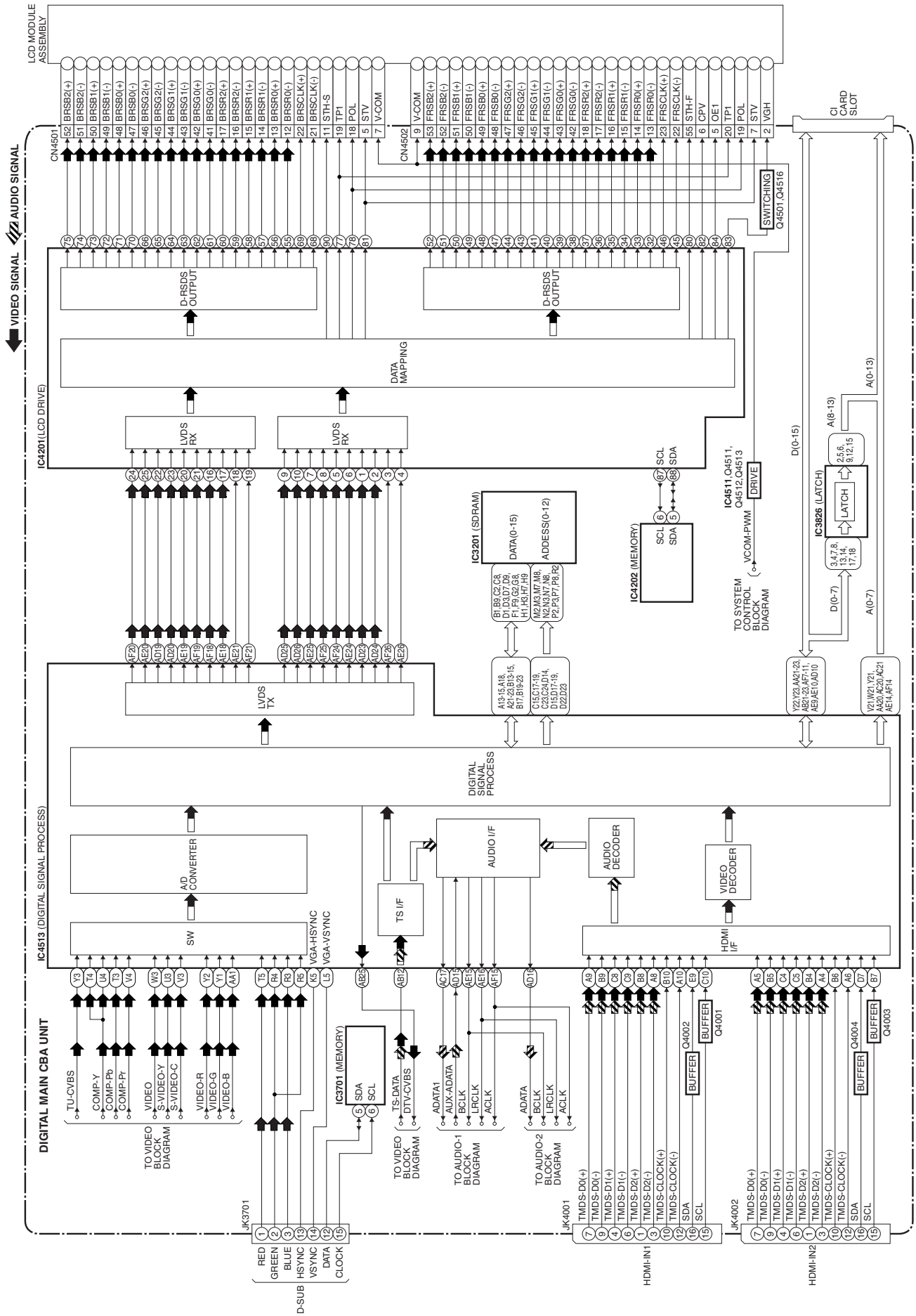
Audio-1 Block Diagram



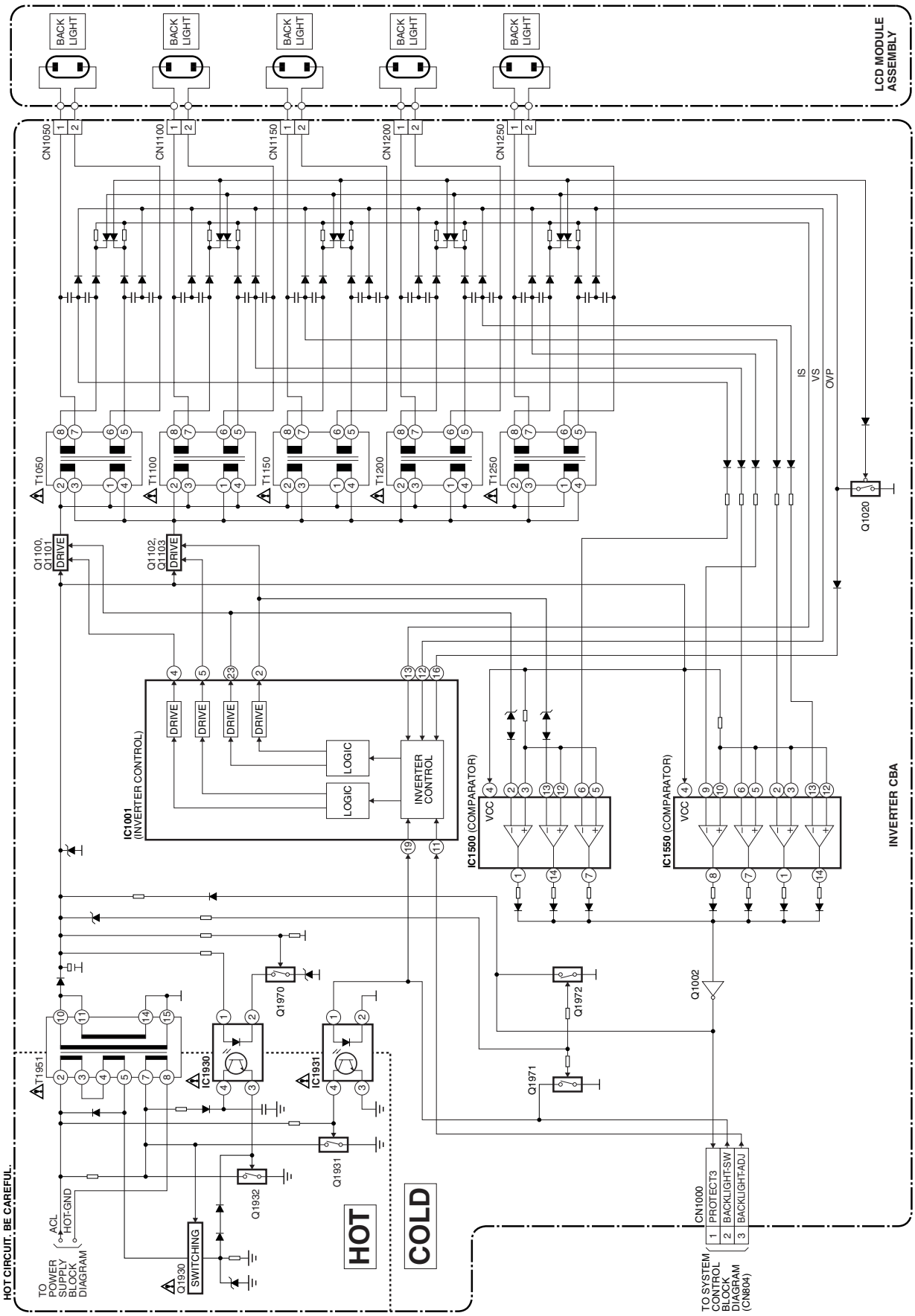
Audio-2 Block Diagram



Digital Signal Process Block Diagram

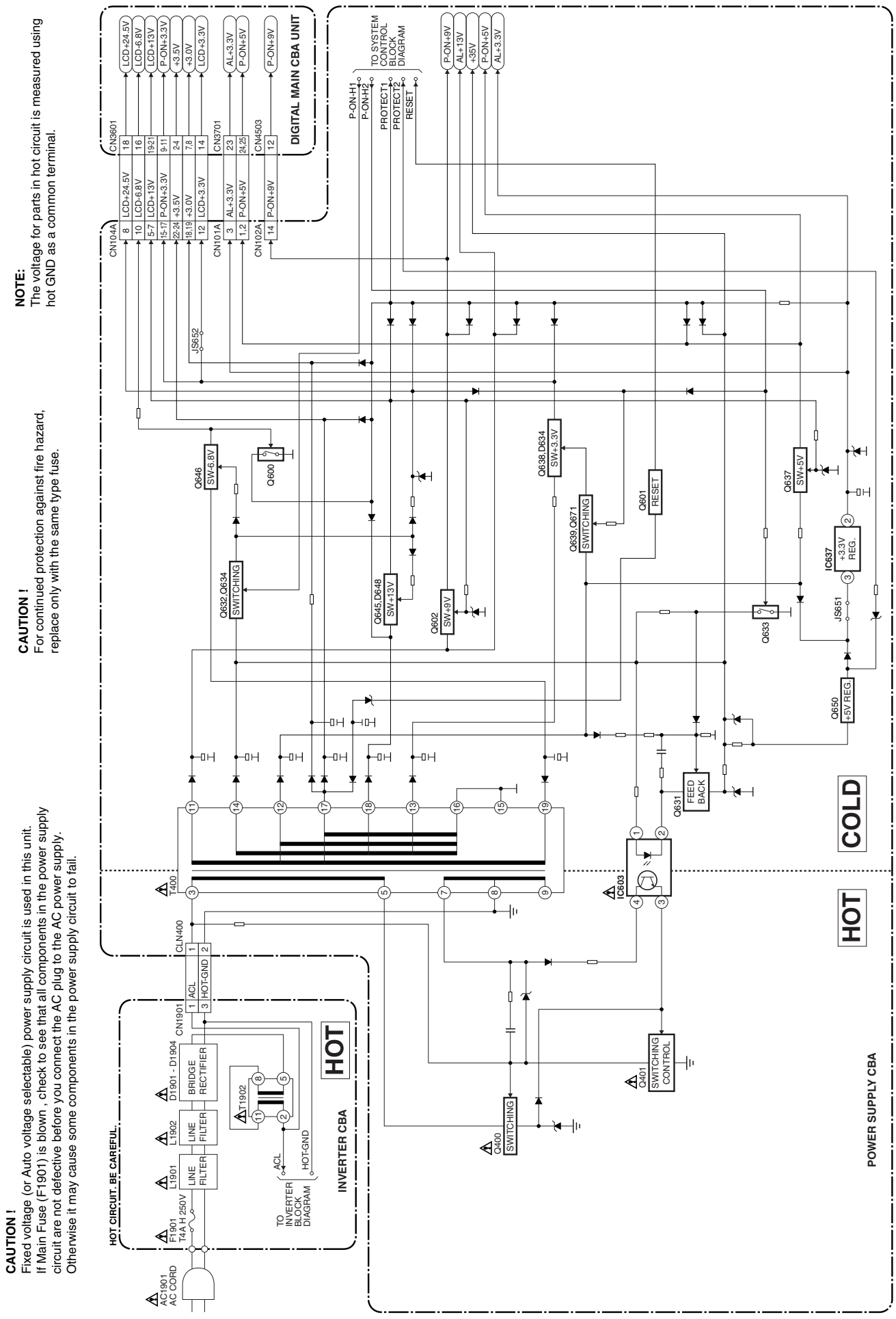


Inverter Block Diagram



NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Power Supply Block Diagram



SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

Standard Notes

WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "⚠" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms ($K = 10^3$, $M = 10^6$).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in μF ($P = 10^{-6}$ μF).
5. All voltages are DC voltages unless otherwise specified.

LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

1. CAUTION:

FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH THE SAME TYPE FUSE.

2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

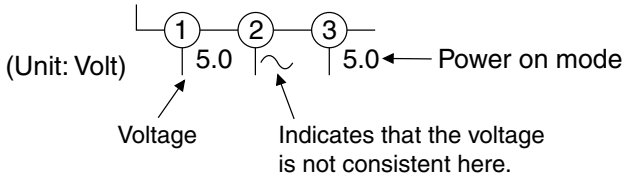
If Main Fuse (F1901) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

3. Note:

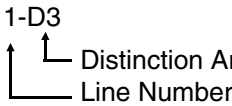
1. Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
2. To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:

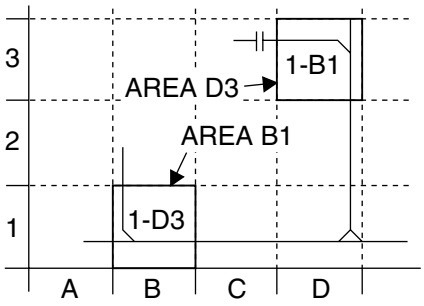


5. How to read converged lines



Examples:

1. "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
2. "1-B1" means that line number "1" goes to the line number "1" of the area "B1".



6. Test Point Information

 : Indicates a test point with a jumper wire across a hole in the PCB.

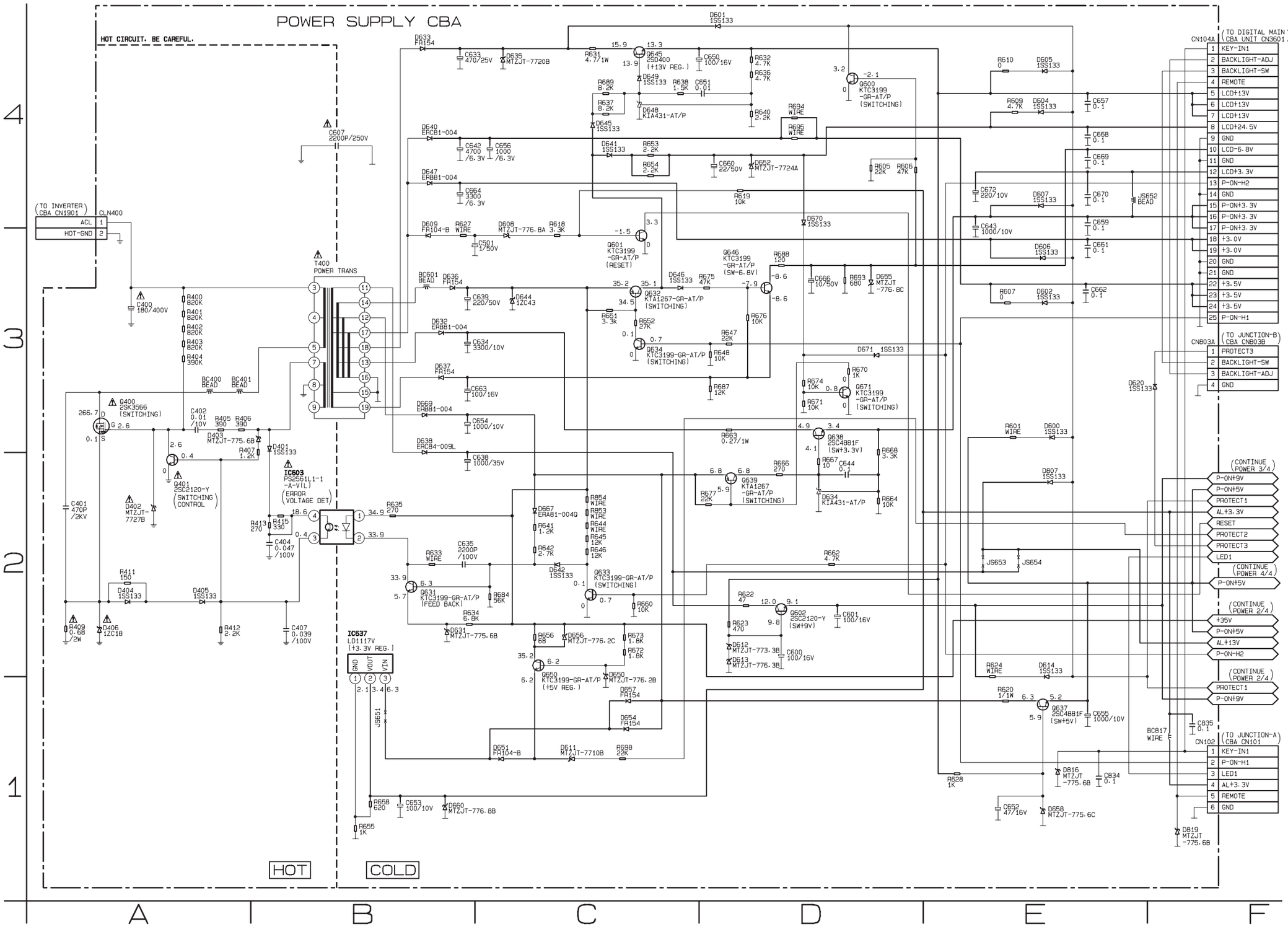
 : Used to indicate a test point with a component lead on foil side.

 : Used to indicate a test point with no test pin.

 : Used to indicate a test point with a test pin.

Power Supply 1/4 Schematic Diagram

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

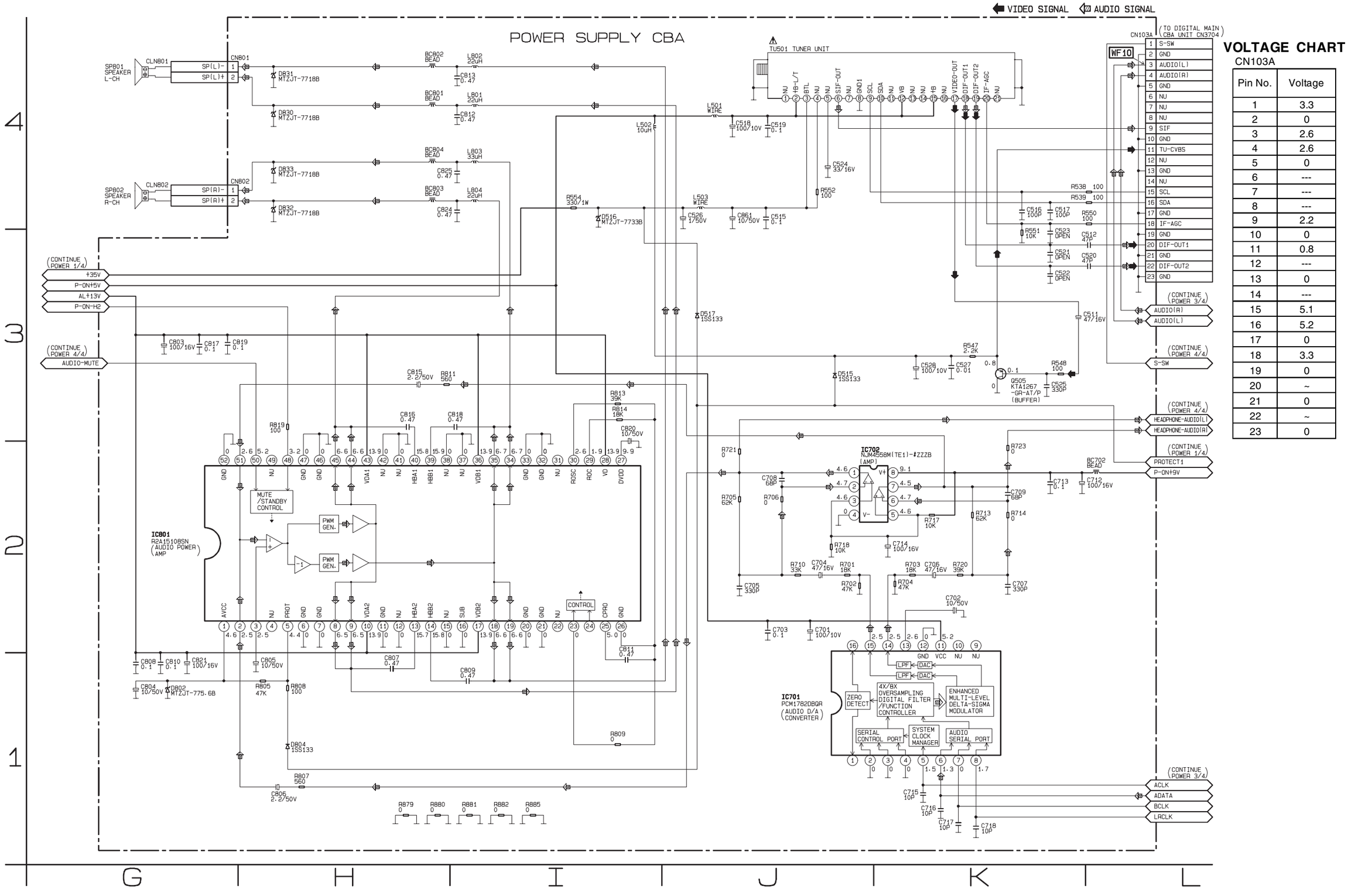


VOLTAGE CHART

CN104A

Pin No.	Voltage
1	3.3
2	3.2
3	3.2
4	3.3
5	13.3
6	13.3
7	13.3
8	23.3
9	0
10	-6.8
11	0
12	3.4
13	3.2
14	0
15	3.4
16	3.4
17	3.4
18	3.4
19	3.4
20	0
21	0
22	3.4
23	3.4
24	3.4
25	3.3

Power Supply 2/4 Schematic Diagram

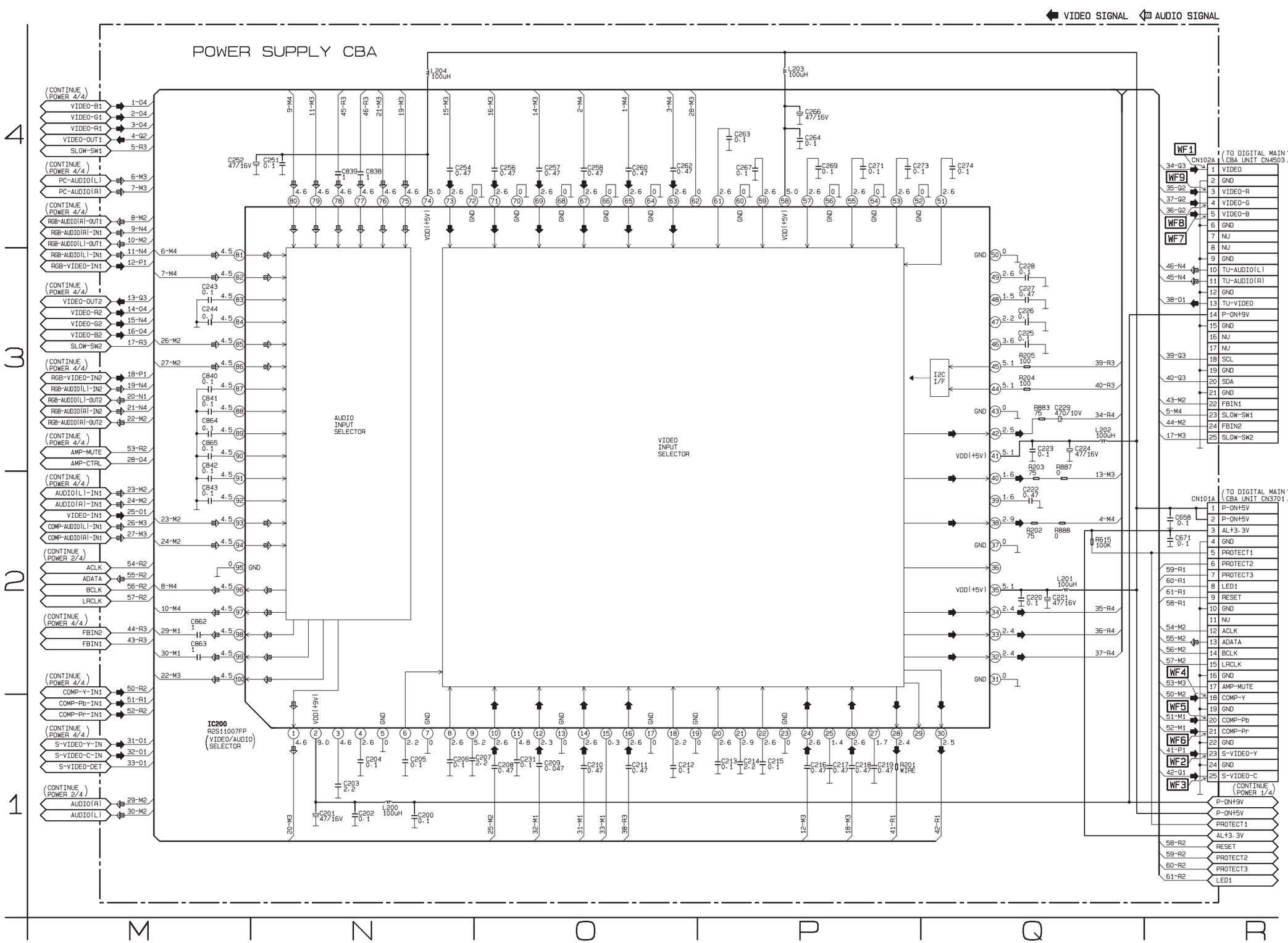


VOLTAGE CHART

CN103A

Pin No.	Voltage
1	3.3
2	0
3	2.6
4	2.6
5	0
6	---
7	---
8	---
9	2.2
10	0
11	0.8
12	---
13	0
14	---
15	5.1
16	5.2
17	0
18	3.3
19	0
20	~
21	0
22	~
23	0

Power Supply 3/4 Schematic Diagram



VOLTAGE CHART

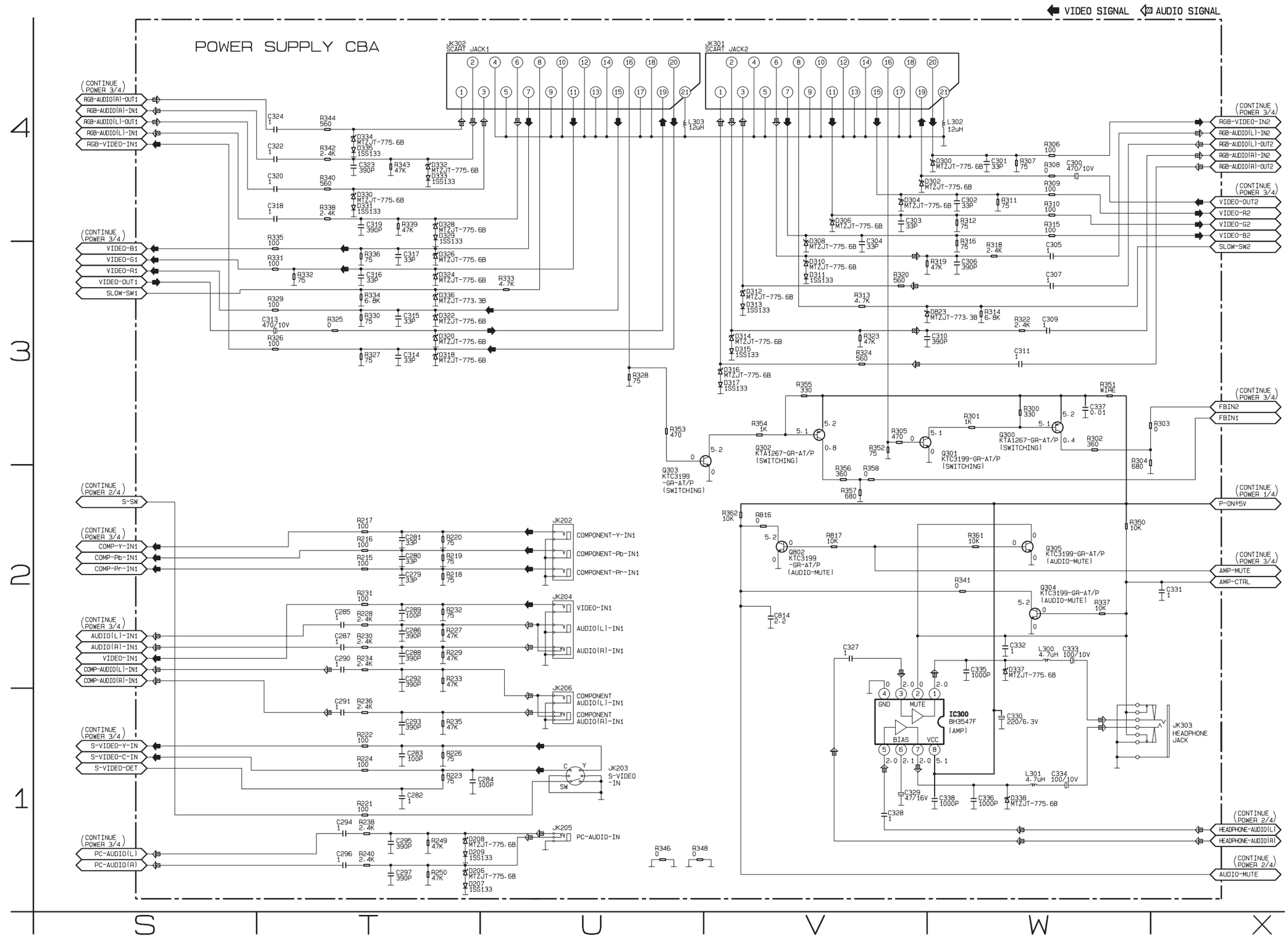
CN101A

Pin No.	Voltage
1	5.2
2	5.2
3	3.4
4	0
5	3.2
6	0
7	3.2
8	0.4
9	3.4
10	0
11	---
12	1.5
13	~
14	1.6
15	1.7
16	0
17	0.3
18	0
19	0
20	0
21	0
22	0
23	2.4
24	0
25	2.4

CN102A

Pin No.	Voltage
1	0
2	0
3	2.4
4	2.4
5	2.4
6	0
7	---
8	---
9	0
10	5.8
11	5.8
12	0
13	4.6
14	9.1
15	0
16	---
17	---
18	5.1
19	0
20	5.1
21	0
22	0.4
23	0
24	0.7
25	0.1

Power Supply 4/4 Schematic Diagram

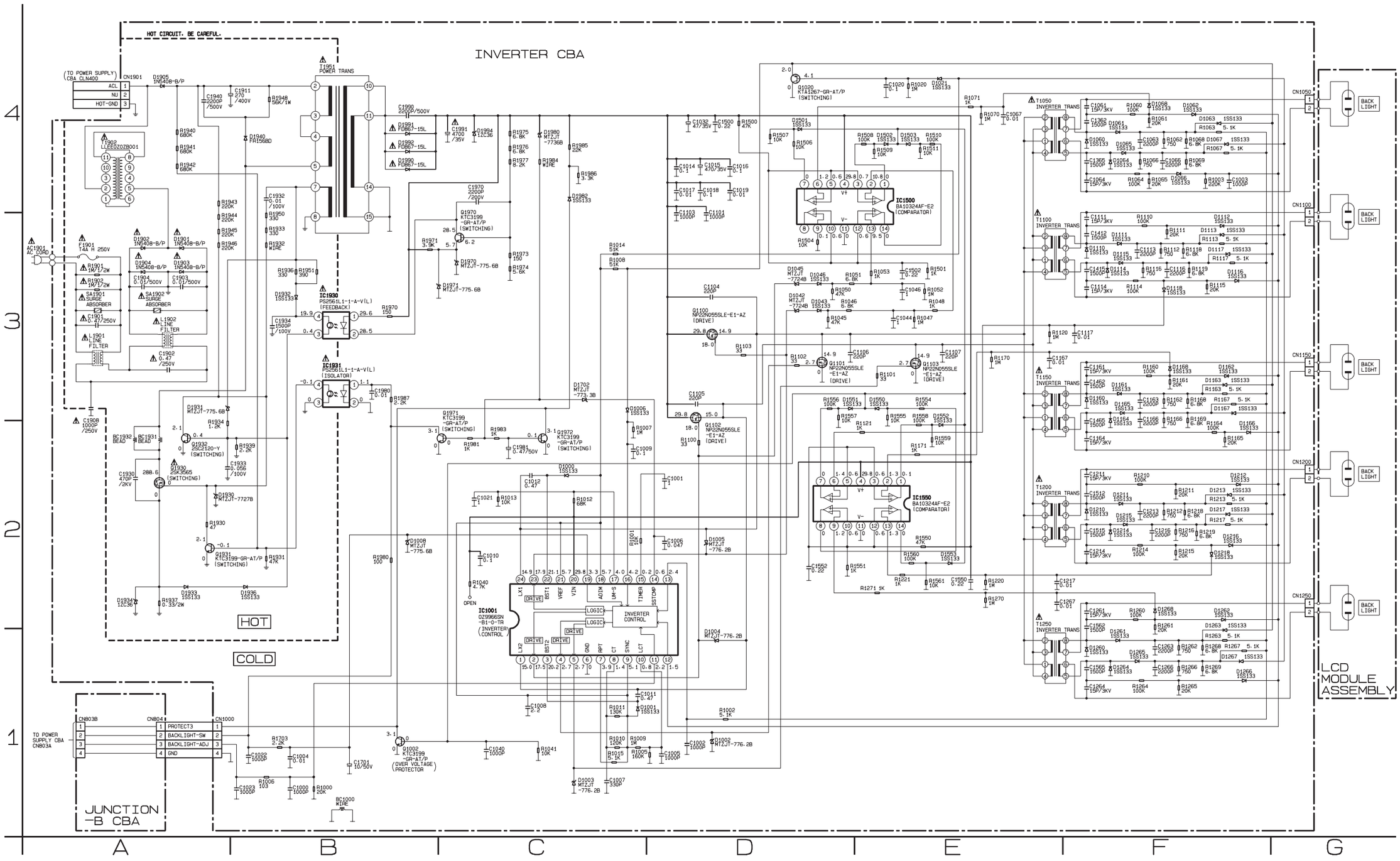


Inverter & Junction-B Schematic Diagram

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1901) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

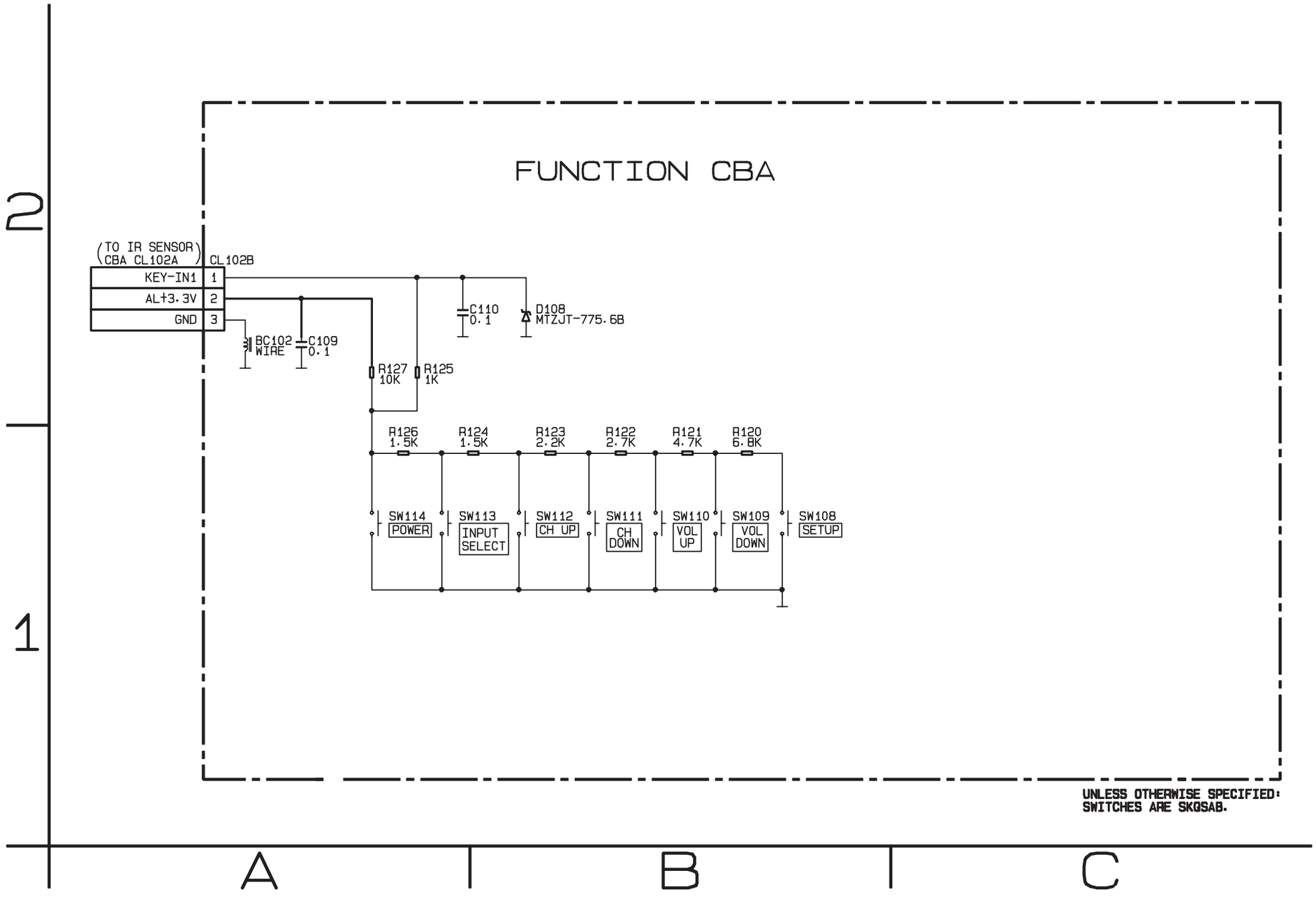
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

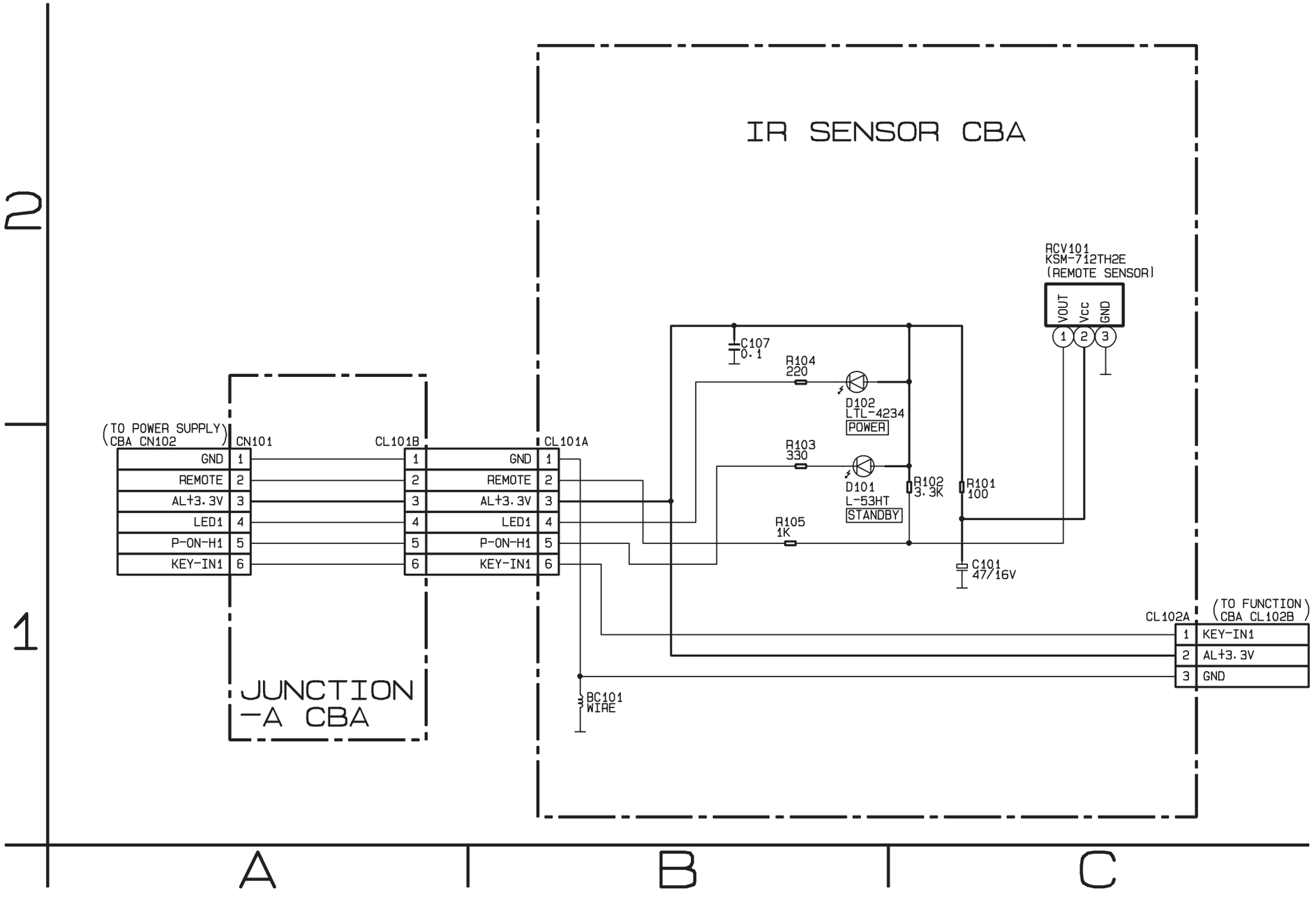


A8CF0SCINV

Function Schematic Diagram



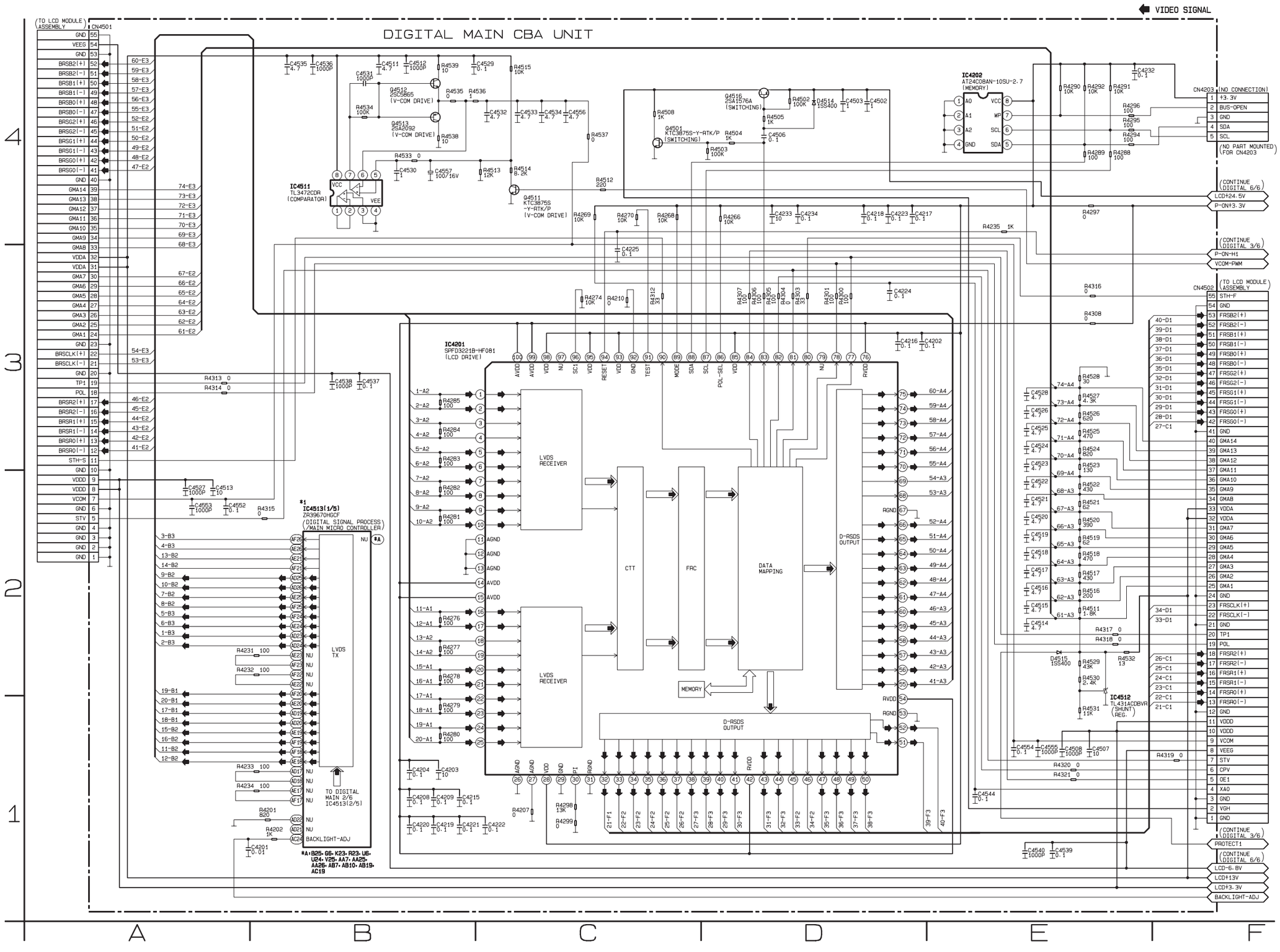
IR Sensor & Junction-A Schematic Diagram



Digital Main 1/6 Schematic Diagram

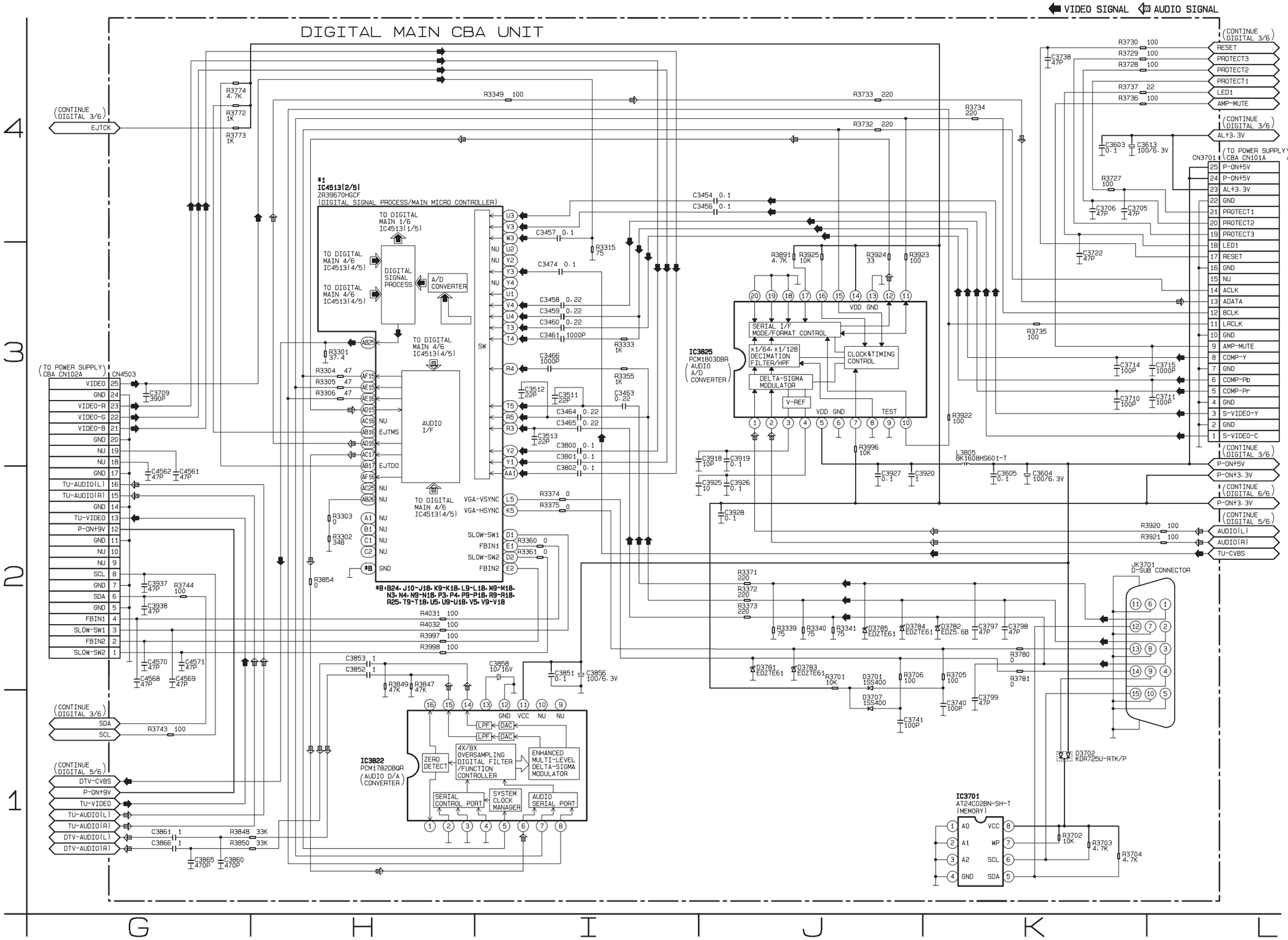
∗1 NOTE:

The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



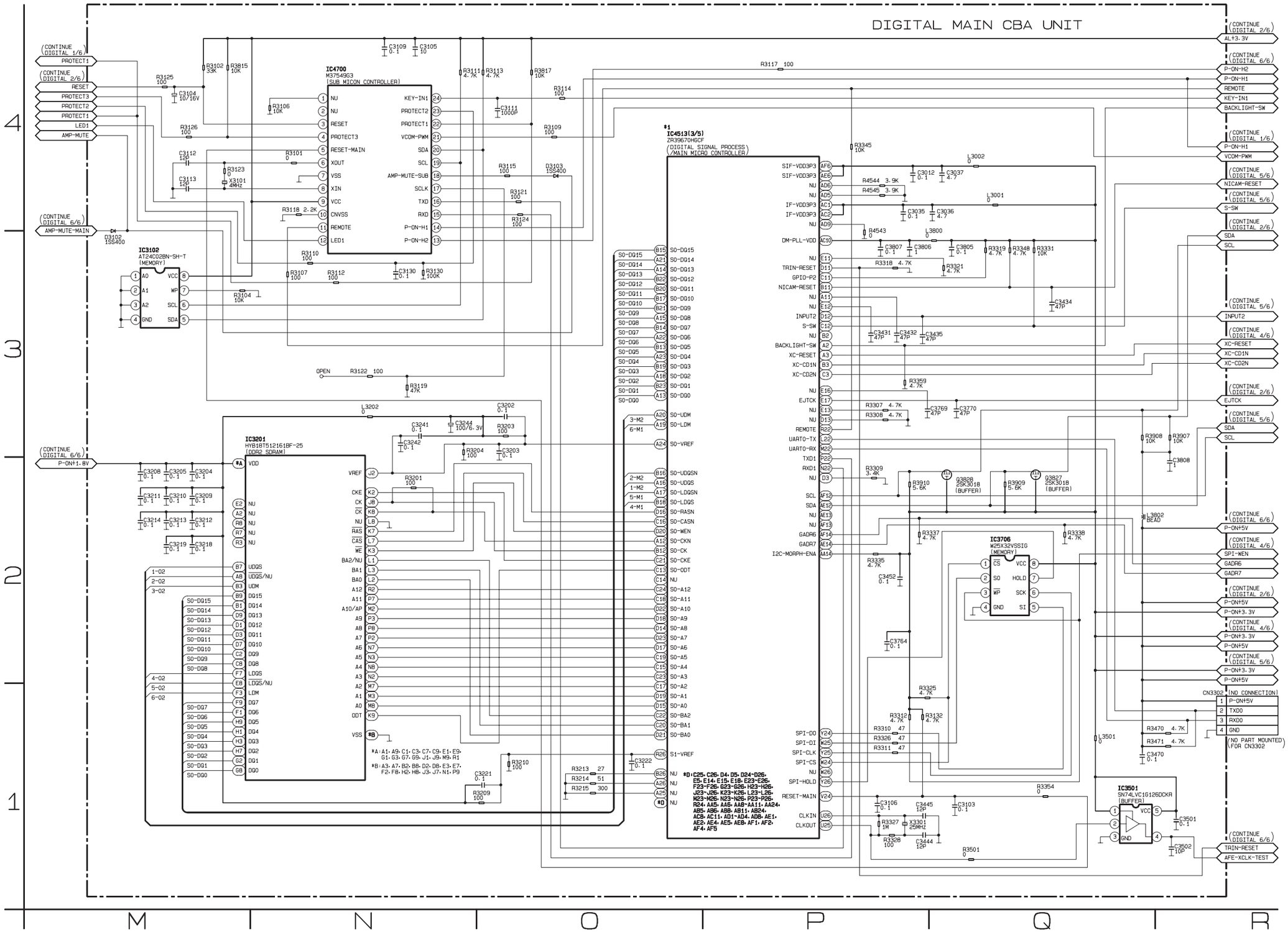
Digital Main 2/6 Schematic Diagram

∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



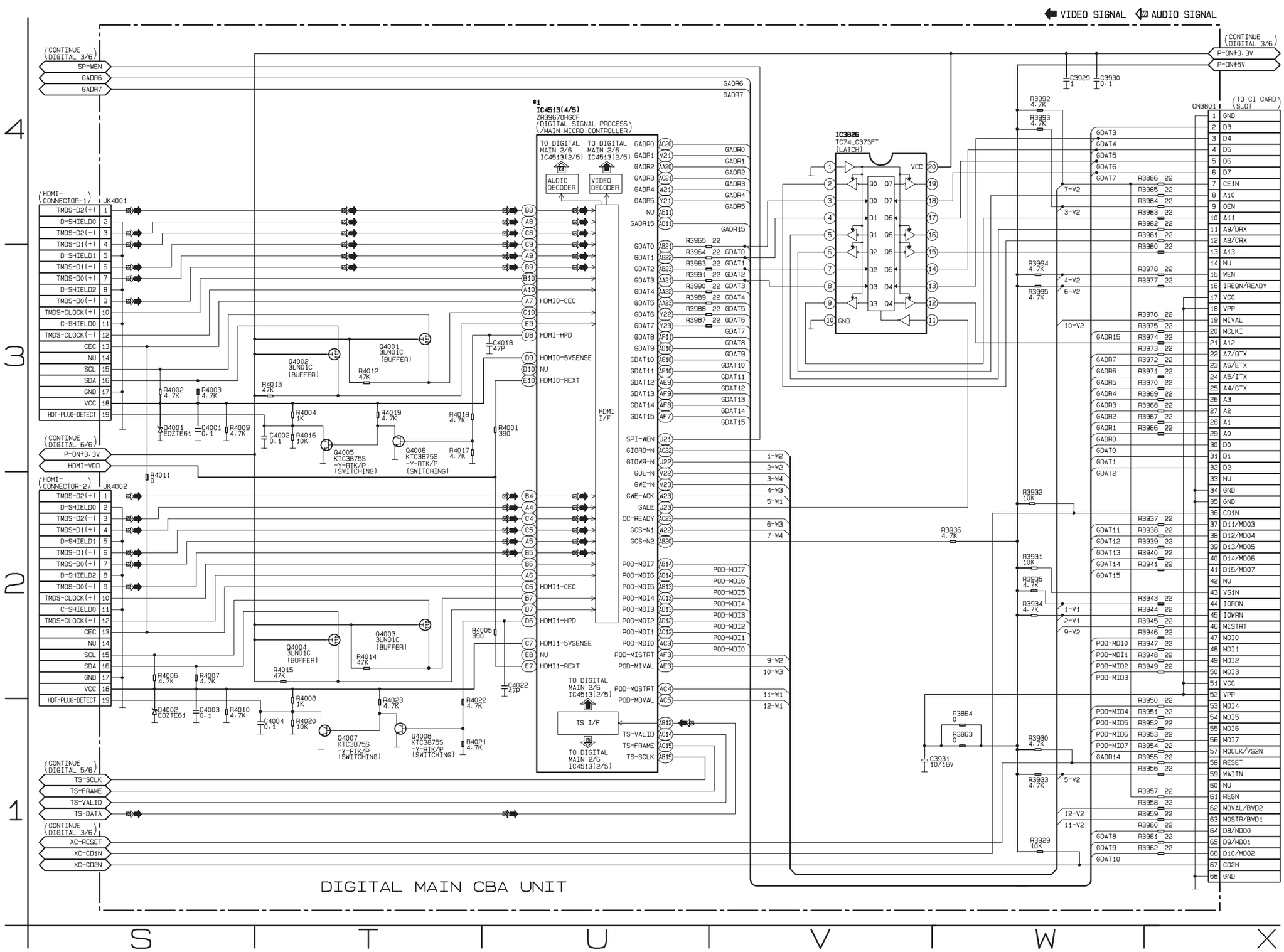
Digital Main 3/6 Schematic Diagram

∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



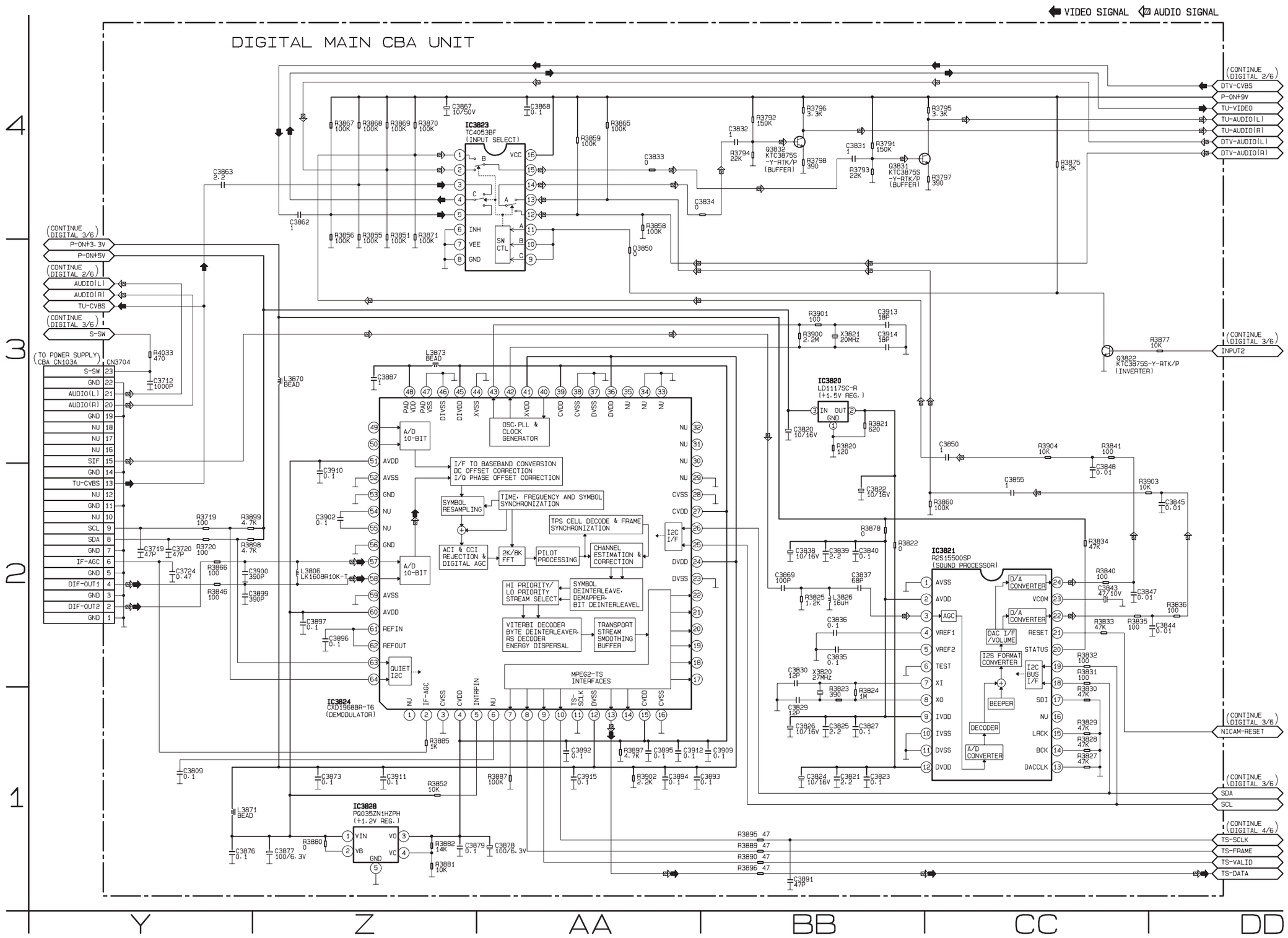
Digital Main 4/6 Schematic Diagram

∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



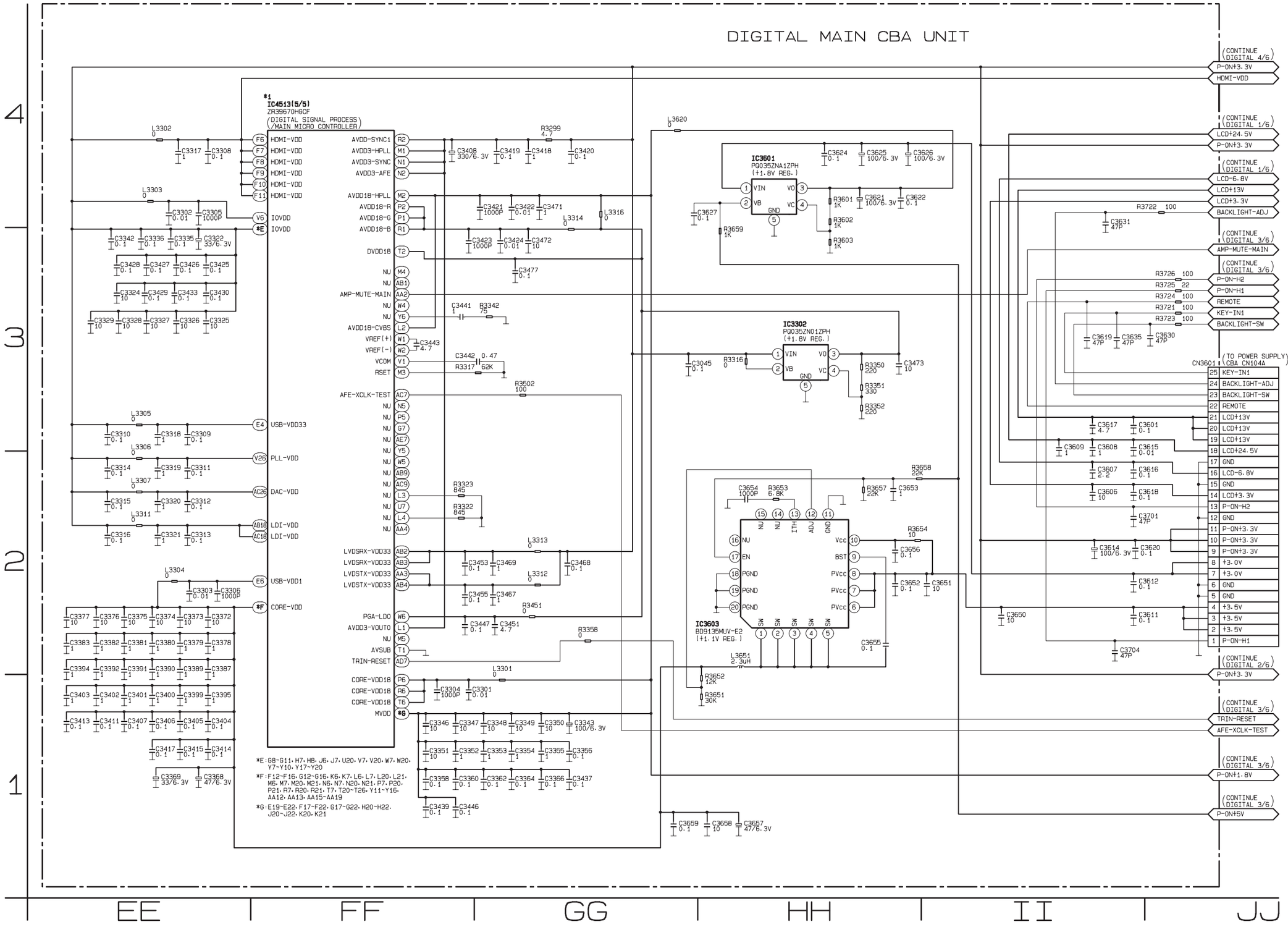
A8CF0SCD4

Digital Main 5/6 Schematic Diagram



Digital Main 6/6 Schematic Diagram

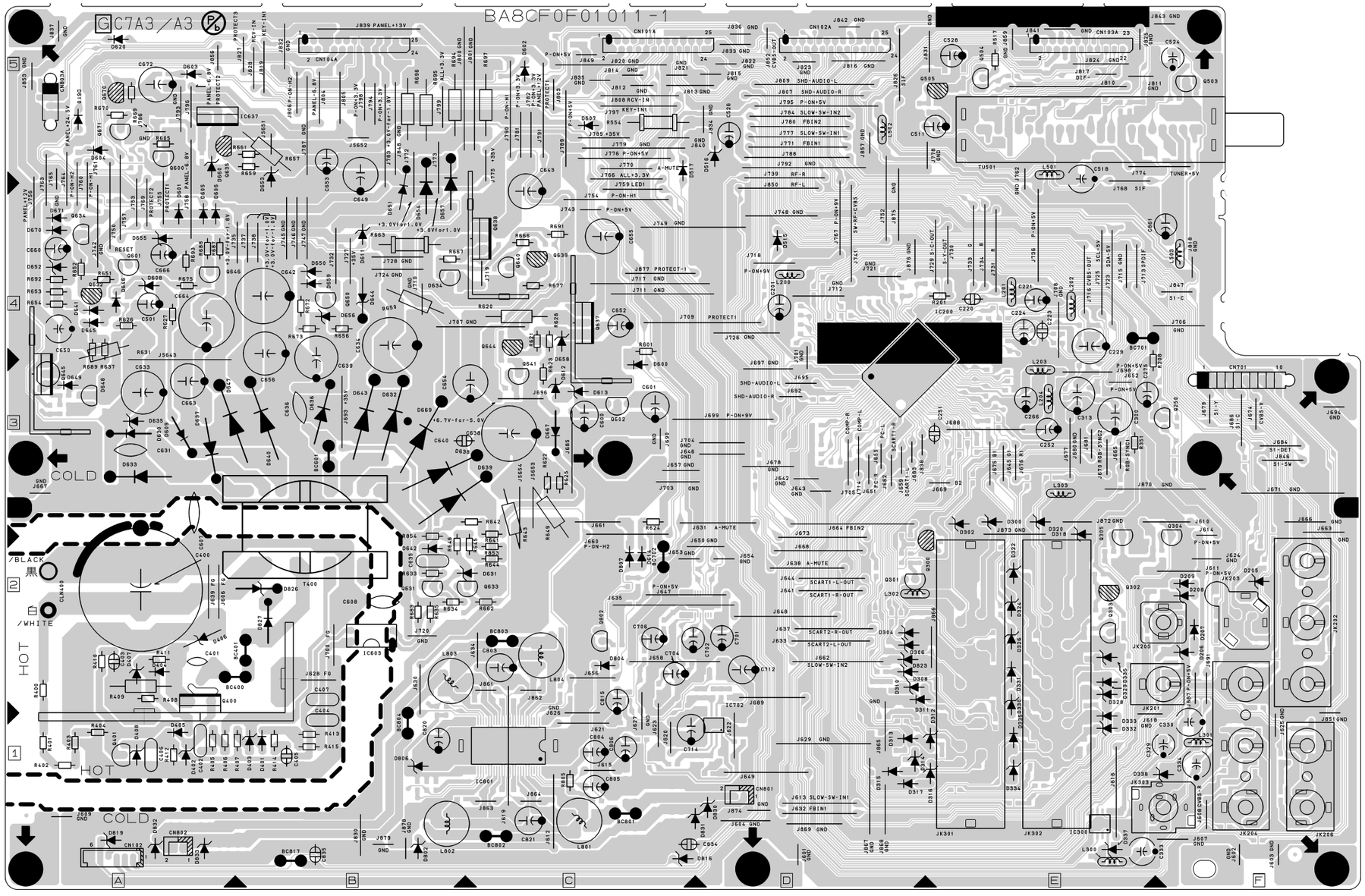
∗1 NOTE:
The order of pins shown in this diagram is different from that of actual IC4513.
IC4513 is divided into seven and shown as IC4513 (1/5) ~ IC4513 (4/5) in this Digital Main Schematic Diagram Section.



Power Supply CBA Top View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

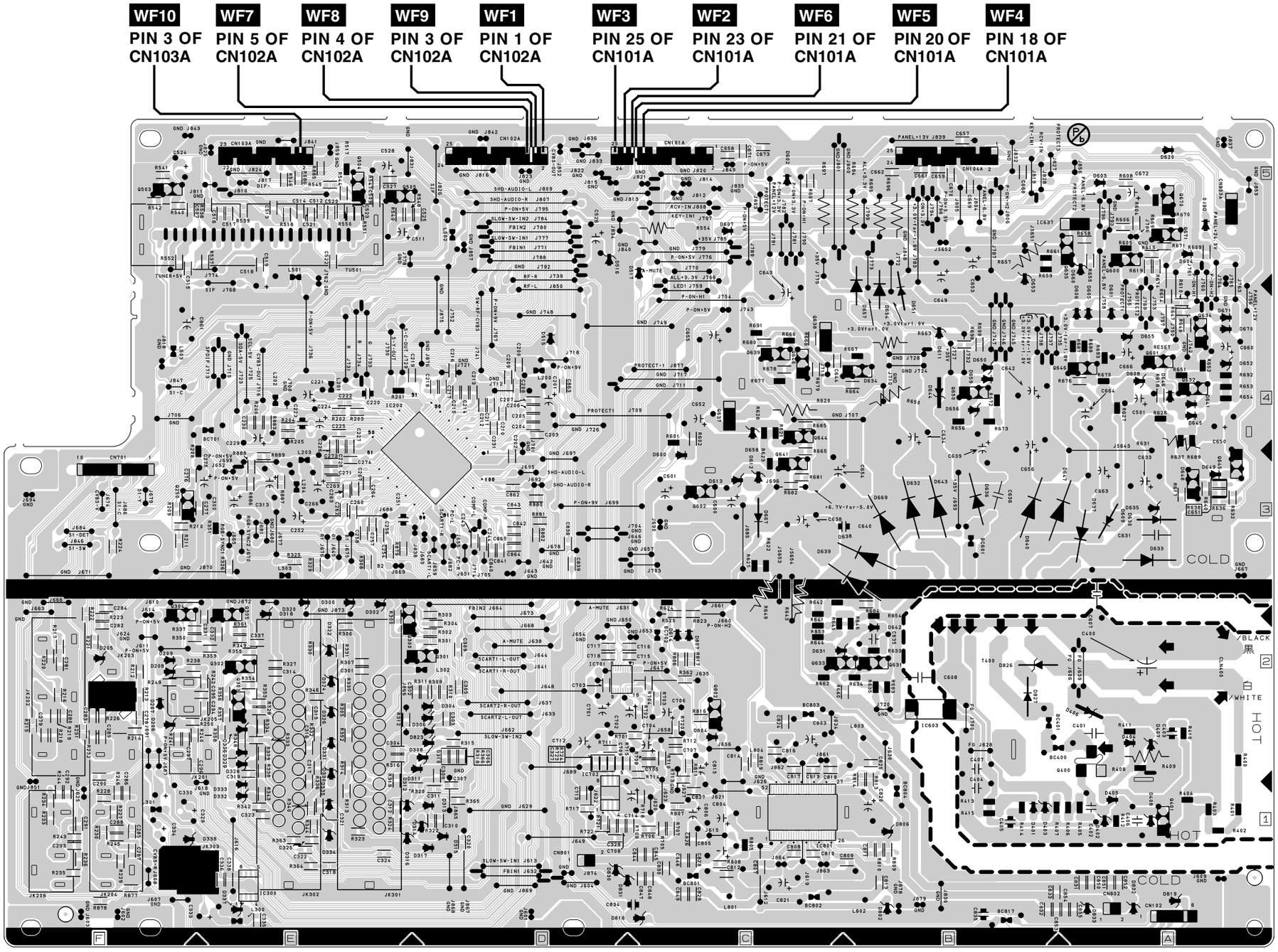
Because a hot chassis ground is present in the power supply circut, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.



Power Supply CBA Bottom View

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Because a hot chassis ground is present in the power supply circut, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly, when troubleshooting this type power supply circuit, a variable isolation transformer is required.



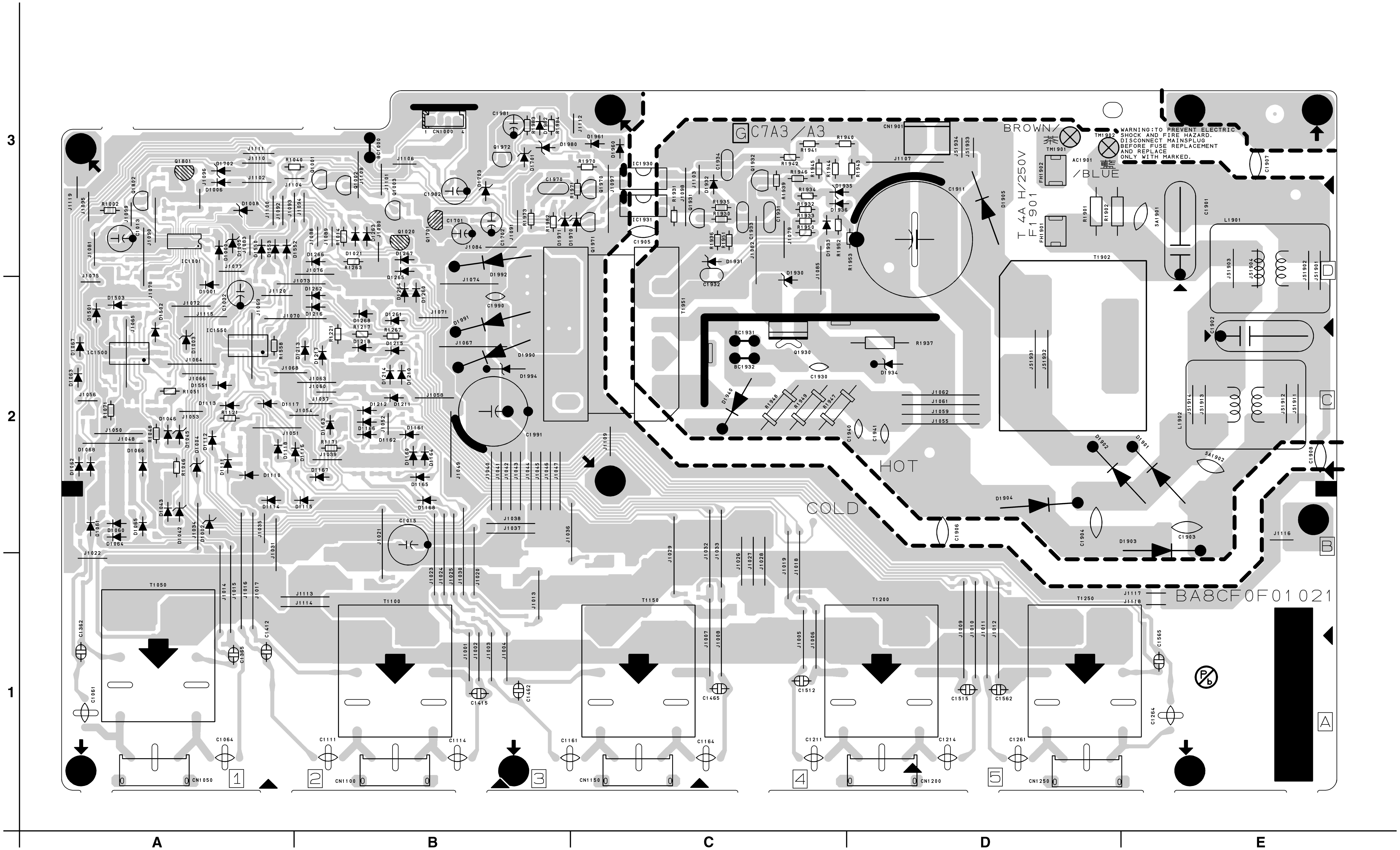
Inverter CBA Top View

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1901) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



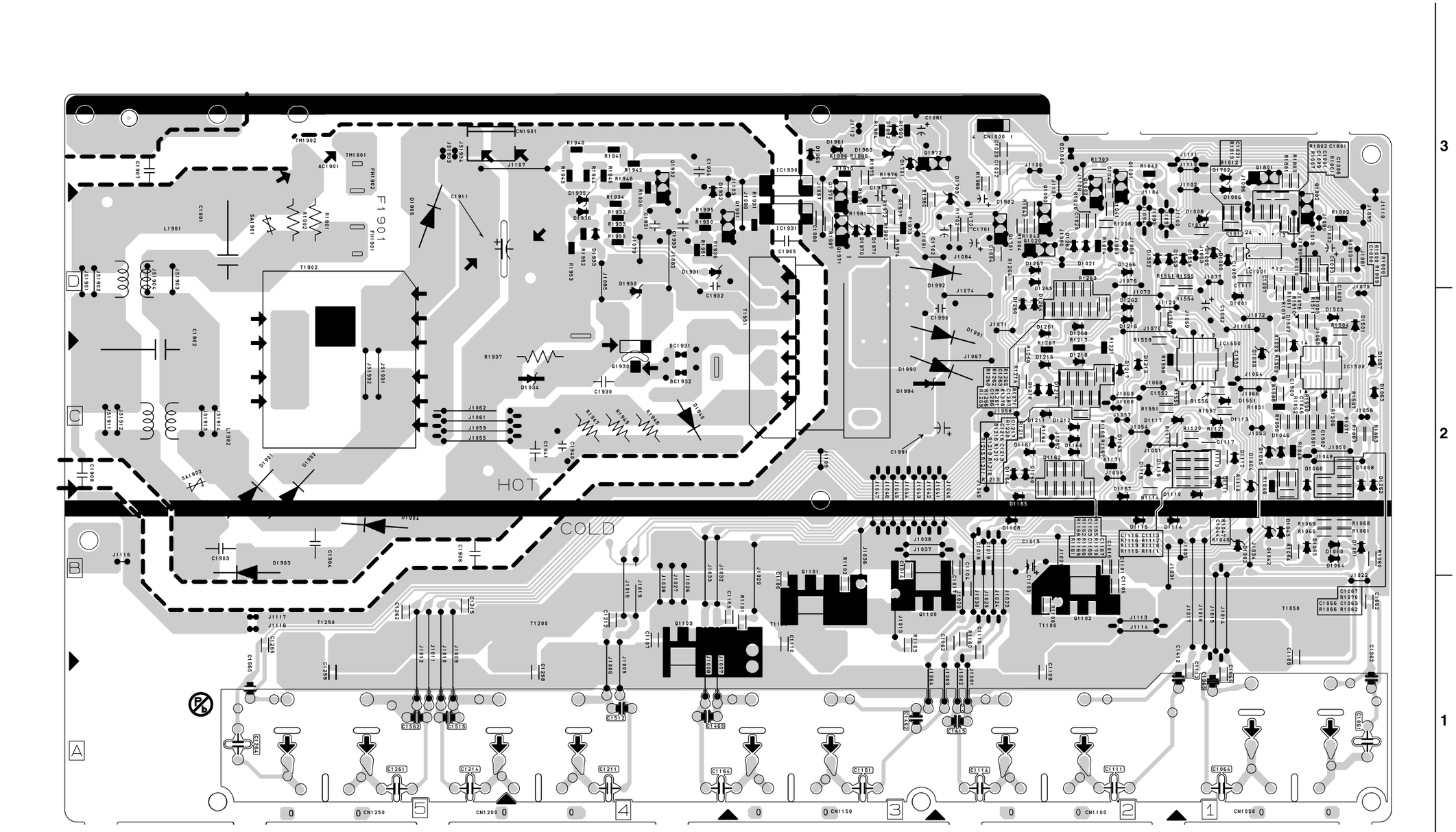
Inverter CBA Bottom View

CAUTION !
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit.
If Main Fuse (F1901) is blown , check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply.
Otherwise it may cause some components in the power supply circuit to fail.

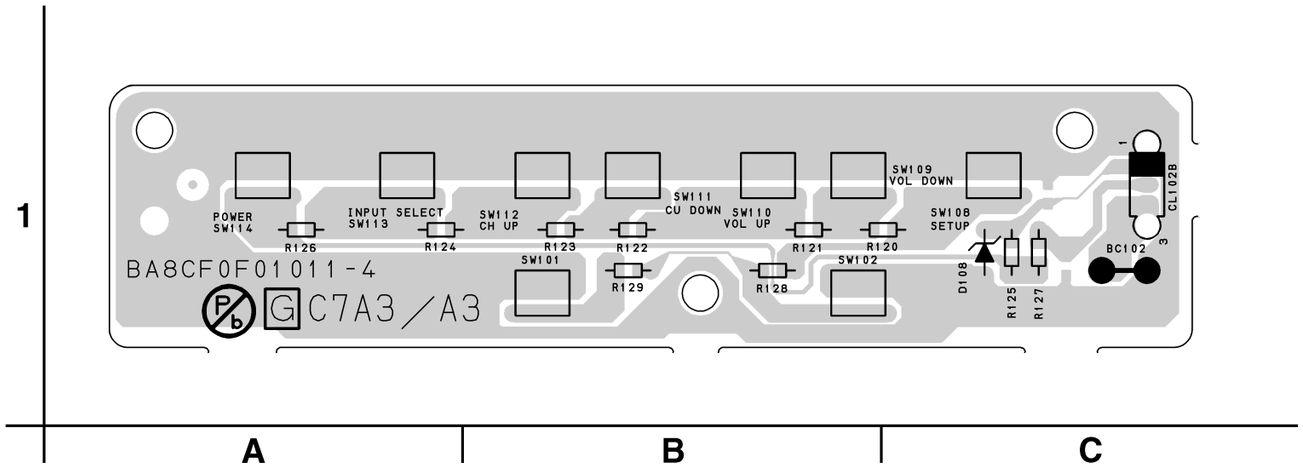
CAUTION !
For continued protection against fire hazard, replace only with the same type fuse.

NOTE:
The voltage for parts in hot circuit is measured using hot GND as a common terminal.

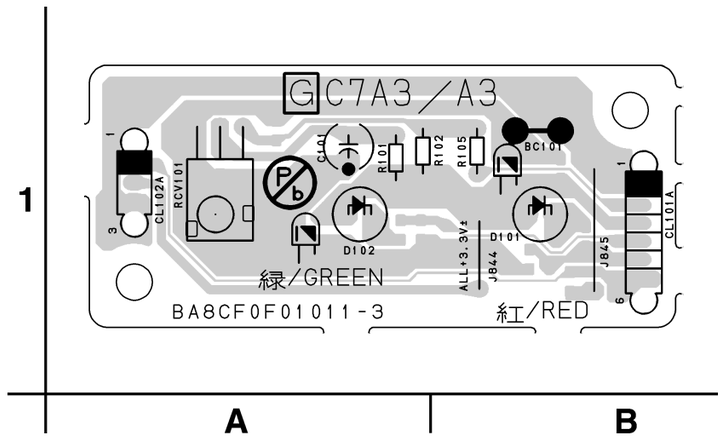
Because a hot chassis ground is present in the power supply circuit, an isolation transformer must be used. Also, in order to have the ability to increase the input slowly,when troubleshooting this type power supply circuit, a variable isolation transformer is required.



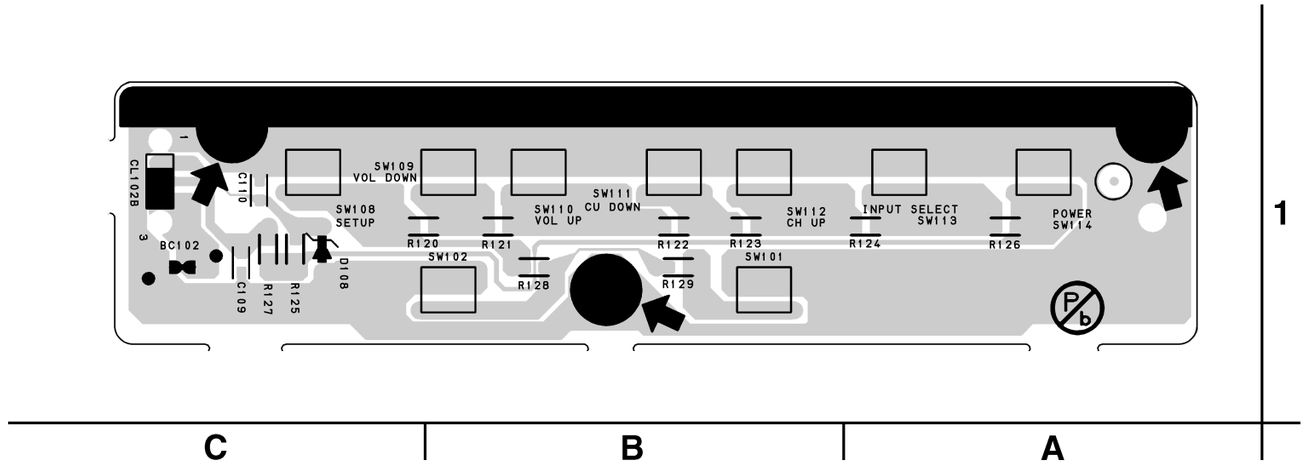
Function CBA Top View



IR Sensor CBA Top View

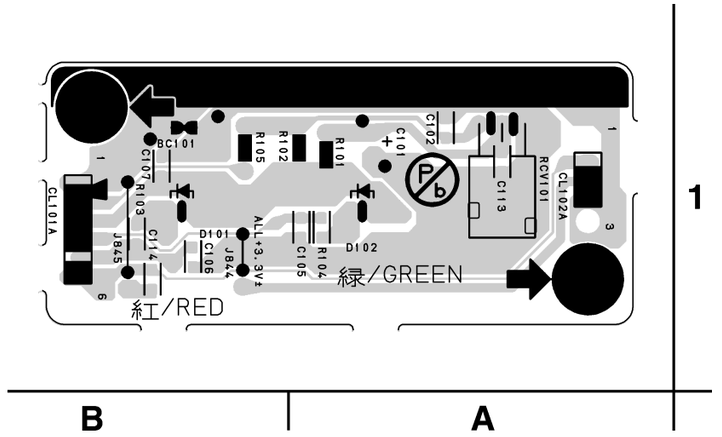


Function CBA Bottom View



BA8CF0F01011-4

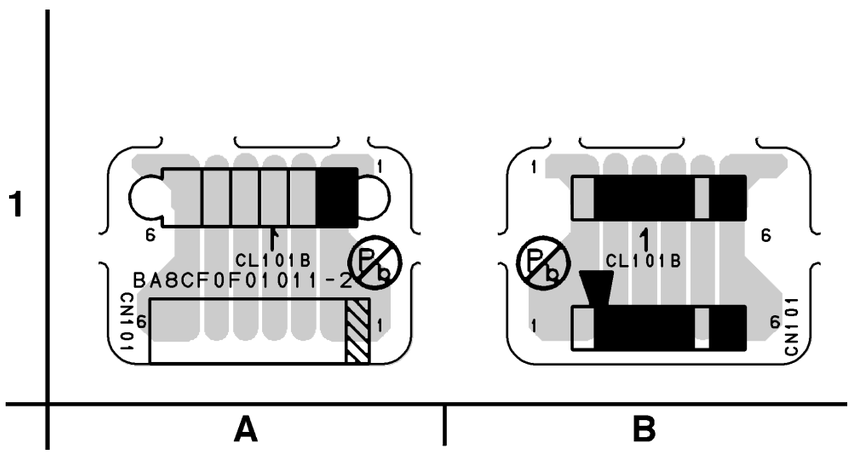
IR Sensor CBA Bottom View



BA8CF0F01011-3

Junction-A CBA
Top View

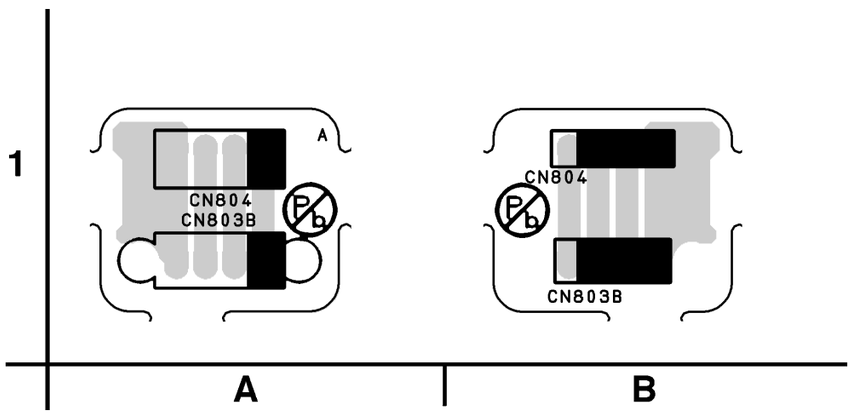
Junction-A CBA
Bottom View



BA8CF0F01011-2

Junction-B CBA
Top View

Junction-B CBA
Bottom View



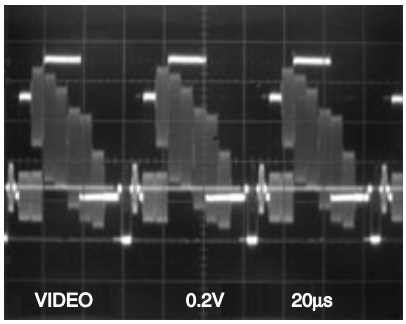
BA8CF0F01011

WAVEFORMS

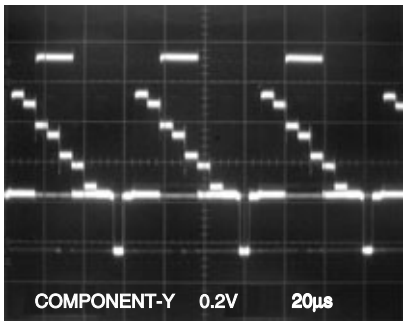
WF1 ~ WF6 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: PAL Color Bar Signal (with 1kHz Audio Signal)

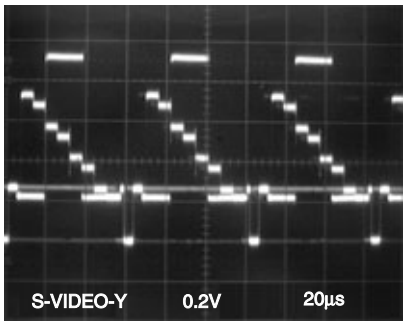
WF1 Pin 1 of CN102A



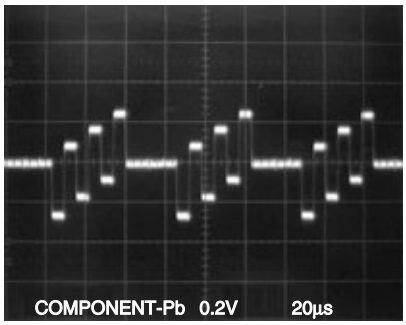
WF4 Pin 18 of CN101A



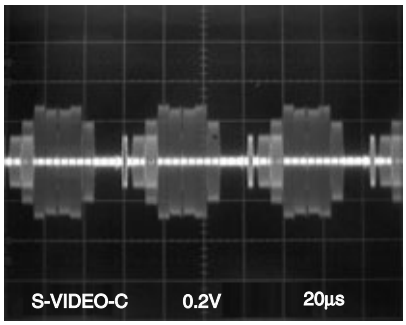
WF2 Pin 23 of CN101A



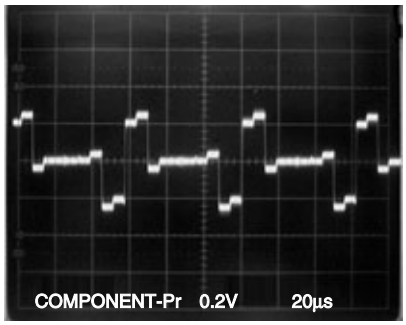
WF5 Pin 20 of CN101A



WF3 Pin 25 of CN101A



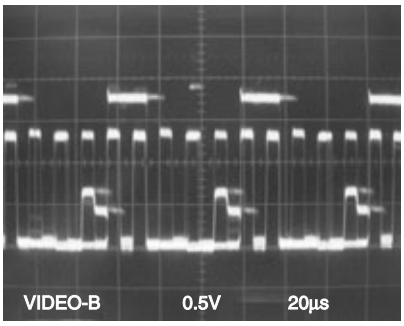
WF6 Pin 21 of CN101A



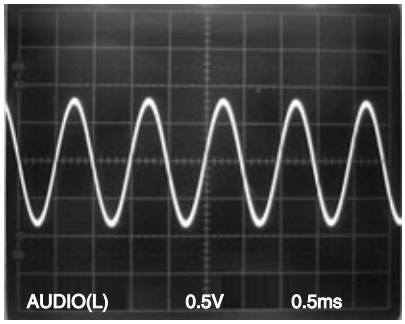
WF7 ~ WF10 = Waveforms to be observed at
Waveform check points.
(Shown in Schematic Diagram.)

Input: PAL Color Bar Signal (with 1kHz Audio Signal)

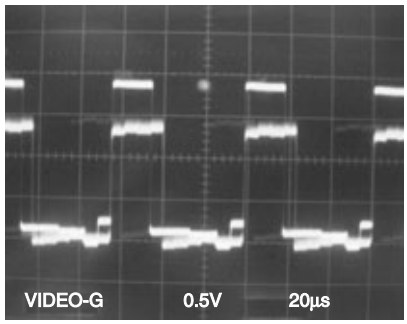
WF7 Pin 5 of CN102A



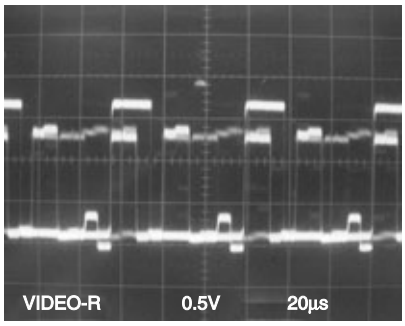
WF10 Pin 3 of CN103A



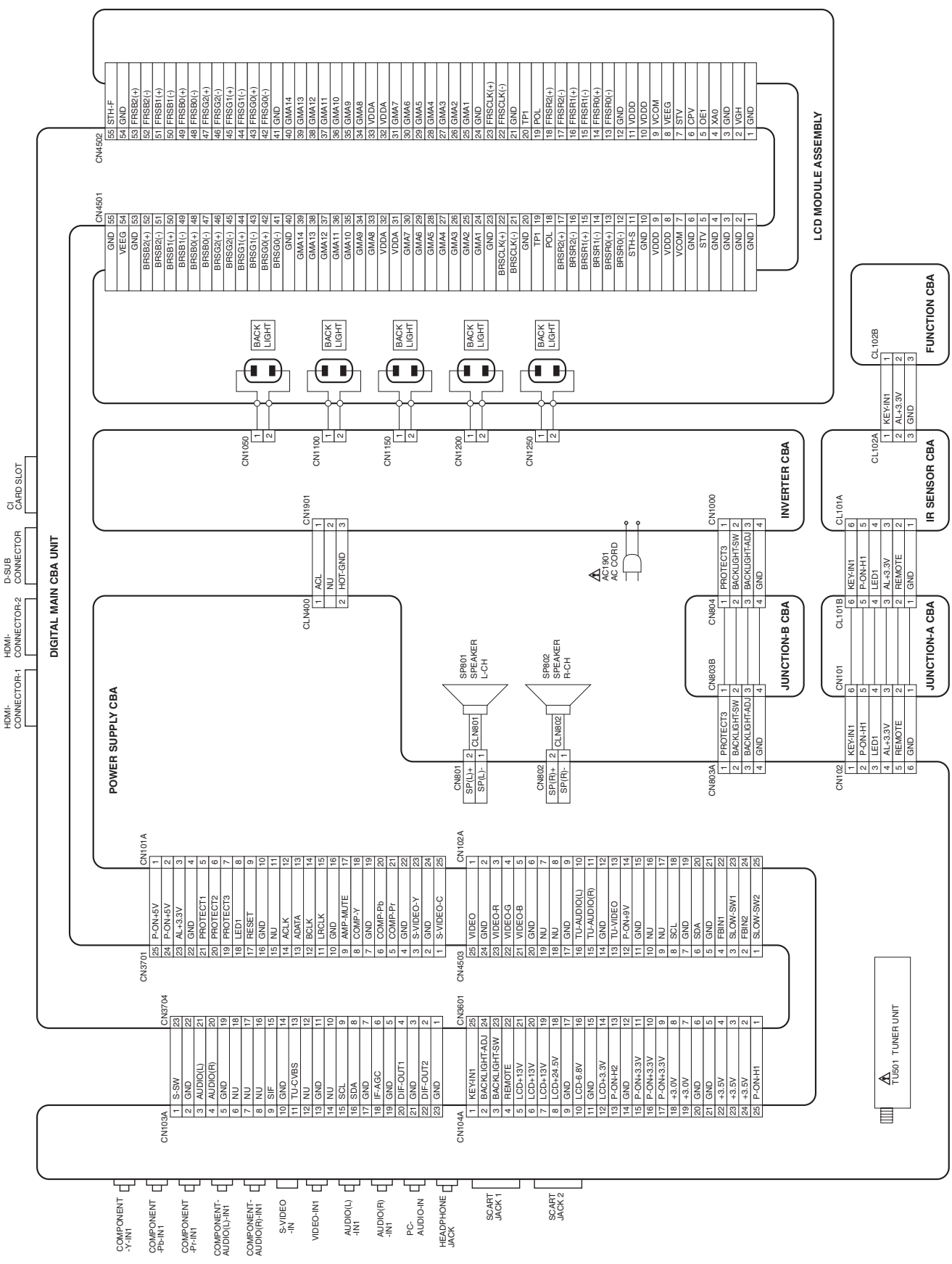
WF8 Pin 4 of CN102A



WF9 Pin 3 of CN102A

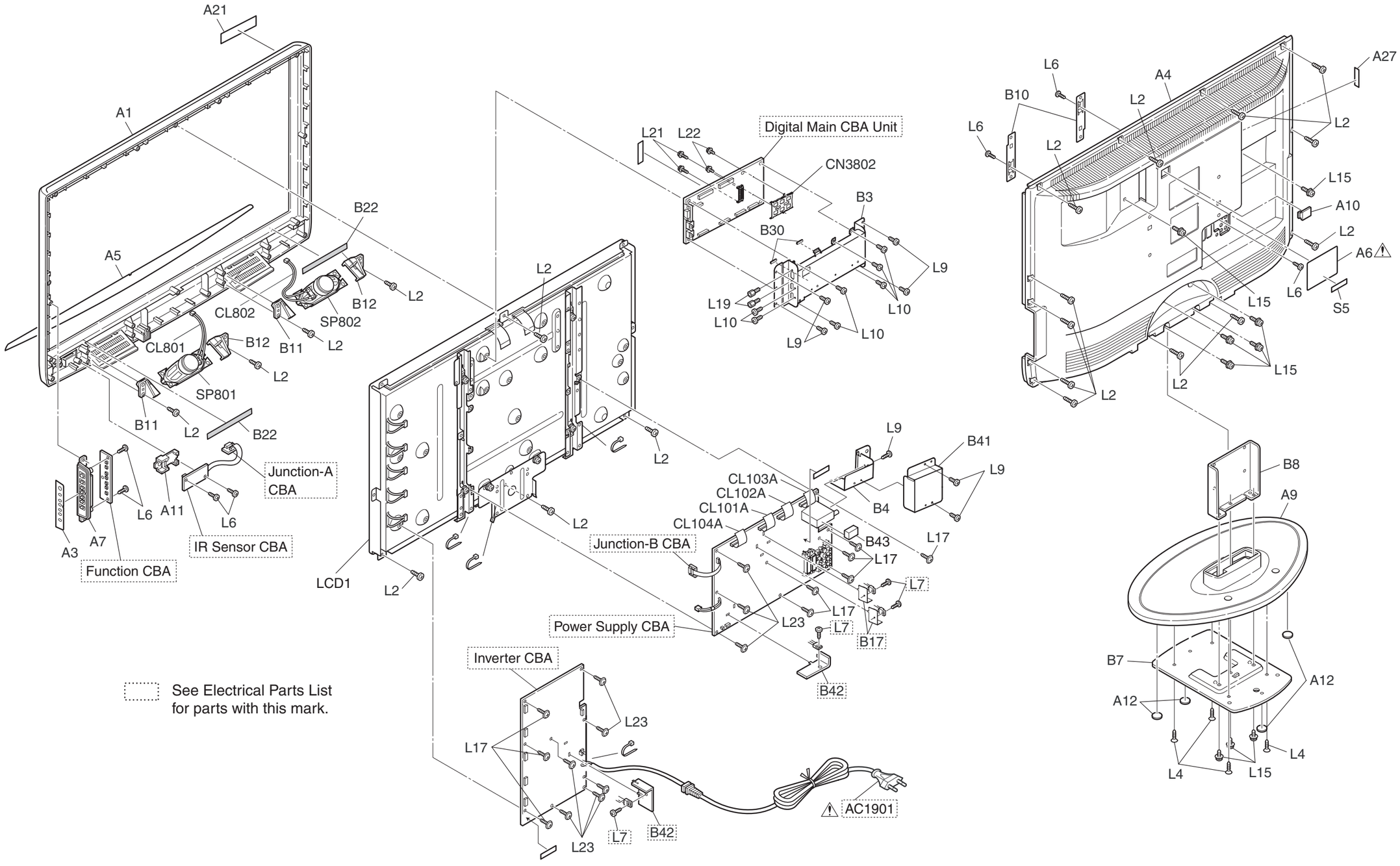


WIRING DIAGRAMS



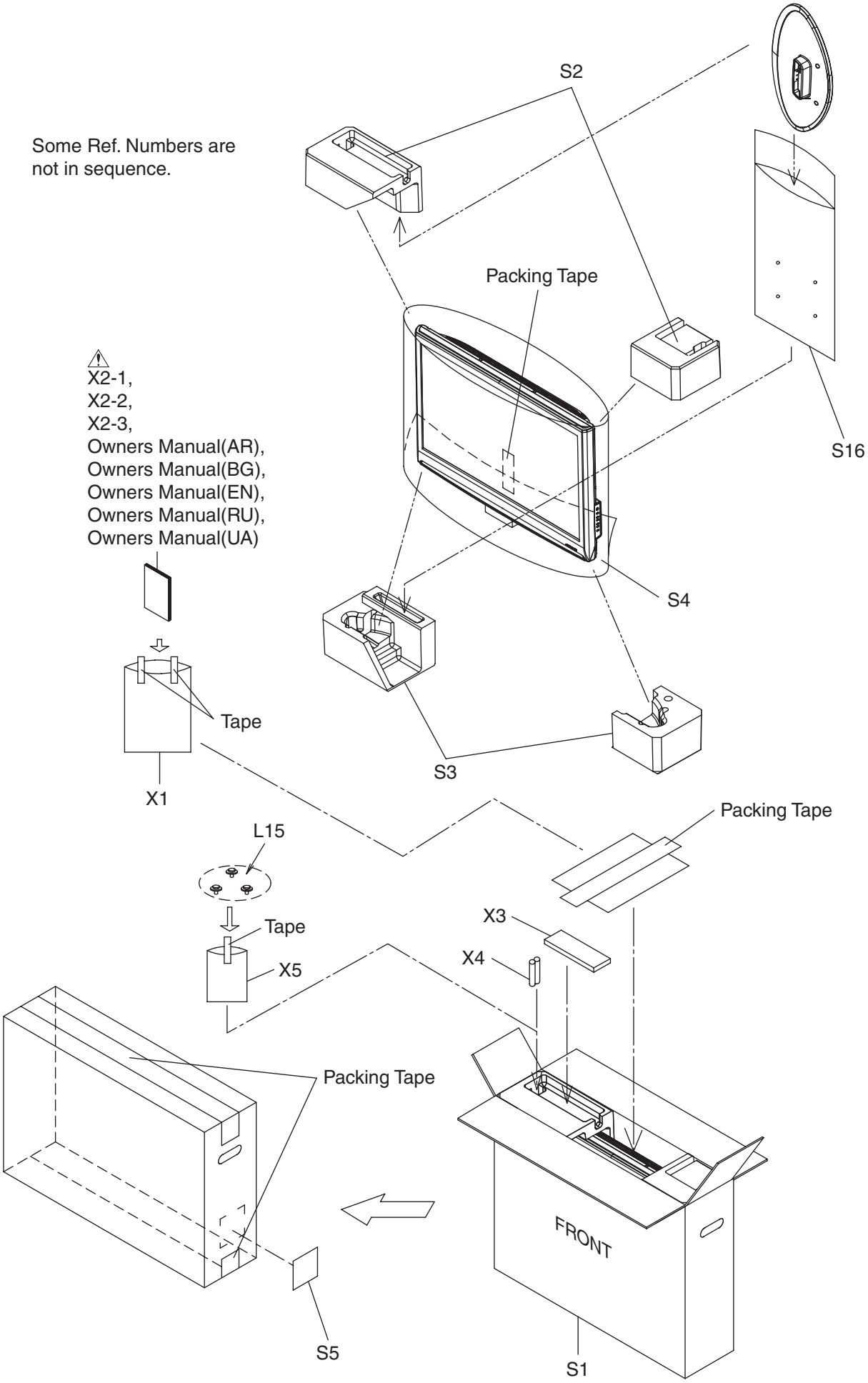
EXPLODED VIEWS

Cabinet



See Electrical Parts List for parts with this mark.

Packing


Some Ref. Numbers are not in sequence.
S2
Packing Tape
S16
⚠
X2-1,
X2-2,
X2-3,
Owners Manual(AR),
Owners Manual(BG),
Owners Manual(EN),
Owners Manual(RU),
Owners Manual(UA)
S4
Tape
X1
S3
Packing Tape
L15
Tape
X5
X3
X4
Packing Tape
FRONT
S5
S1

MECHANICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that are not assigned part numbers (---------) are not available.

Ref. No.	Description	Part No.
A1	FRONT CABINET A8CF0EP	1EM022605
A3	CONTROL PLATE A8CF0EP	1EM426278
A4	REAR CABINET A8CF0EP	1EM022485
A5	DECORATION PLATE A8AF0UH	1EM122277
A7	FUNCTION KNOB A8CF0EP	1EM426339
A9	STAND COVER A8AF0UH	1EM022087A
A10	REAR COVER A73F0EP	1EM322722
A11	LED LENS A8AF0UH	1EM323597
A12	STAND RUBBER FOOT L5001CB	1EM423855
B3	SHIELD BOX A8CF0EP	1EM122233
B4	SHIELD (T) A8CF0EP	1EM324059A
B7	STAND BASE PLATE A8AF0UH	1EM122276
B8	STAND HINGE A8AF0UH	1EM323598
B10	STAND HOLDER A81N0UH	1EM322709
B11	SPEAKER HOLDER (L) A8CF0EP	1EM324397
B12	SPEAKER HOLDER (R) A8CF0EP	1EM324398
B22	CLOTH(10X180XT0.5) L0336JG	0EM408827
B30	GASKET A8AF0UH	1EM425861
B41	FFC SHIELD A8CF0EP	1EM324060
CL101A	WIRE ASSEMBLY FFC A-D 25PIN 25PIN/50MM	WX1A8CF0-002
CL102A	WIRE ASSEMBLY FFC A-D 25PIN 25PIN/50MM	WX1A8CF0-002
CL103A	WIRE ASSEMBLY FFC A-D 23PIN 23PIN/50MM	WX1A8CF0-003
CL104A	WIRE ASSEMBLY FFC A-D 25PIN 25PIN/50MM	WX1A8CF0-002
CL801	WIRE ASSEMBLY SPEAKER 2PIN 2PIN/ 190MM	WX1A8CF0-004
CL802	WIRE ASSEMBLY SPEAKER 2PIN 2PIN/ 190MM	WX1A8CF0-004
CN3802	CONNECTOR IC CARD OSU SLOT 2013858-1	J620680AP001
L2	SCREW P-TIGHT M4X14 BIND HEAD+BLK	GBHP4140
L4	SCREW P-TIGHT M3X12 DISH HEAD+	GDJP3120
L6	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100
L10	SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L19	HEX SCREW #4-40 7MM	1EM422042
L21	DOUBLE SEMS SCREW M2X10+ M2X10	FPJ32100
L22	SEMS M2X4 M2X4 +	FPJ32040
LCD1	LCD MODULE PAL LCD 32INCH PAL	UG320EA
SP801	SPEAKER MAGNETIC S0412F08	DSD1609XQ001
SP802	SPEAKER MAGNETIC S0412F08	DSD1609XQ001
PACKING		
S4	SET BAG L4300UA	1EM321546
S16	STAND BAG A71FCUH	1EM425338
ACCESSORY		
X3	REMOTE CONTROL NF028RD 170/ ECPLC6.501/NF028	NF028RD

Ref. No.	Description	Part No.
A6⚠	RATING LABEL A8CF0EP	---------
A21	POP LABEL A8CN1EP	---------
A27	CARD LABEL A8CN0FP	---------
B43	GASKET A71F0UH	1EM424393
L2	SCREW P-TIGHT M4X14 BIND HEAD+BLK	GBHP4140
L6	SCREW P-TIGHT 3X10 BIND HEAD+	GBHP3100

Ref. No.	Description	Part No.
L9	SCREW S-TIGHT M3X4 BIND HEAD+BLK	GBHS3040
L10	SCREW S-TIGHT M3X6 BIND HEAD+	GBJS3060
L15	DOUBLE SEMS SCREW M4X10 + BLK	FPH34100
L17	ASSEMBLED SCREW (D9 M3X6) A71F0UH	1EM424392A
L23	DOUBLE SEMS SCREW D9 M3X6	1EM426817
PACKING		
S1	CARTON A8CF0EP	1EM426437
S2	STYROFOAM TOP A8CF0EP	1EM022666
S3	STYROFOAM BOTTOM A8CF0EP	1EM022665
S5	SERIAL NO. LABEL L9750UA	---------
ACCESSORIES		
X1	BAG POLYETHYLENE 235X365XT0.03	0EM408420A
X4	BATTERY R6RC/2P	XB0M601MS001
X5	SCREW BAG A81N0UH	1EM424596A
X2-1⚠	OWNERS MANUAL(DE-6) A8CF0EP	1EMN23487
X2-2⚠	OWNERS MANUAL(FR-6) A8CF0EP	1EMN23488
X2-3⚠	OWNERS MANUAL(PL-6) A8CF0EP	1EMN23489
⚠	OWNERS MANUAL(AR)	1EMN23490
⚠	OWNERS MANUAL(BG)	1EMN23491
⚠	OWNERS MANUAL(EN)	1EMN23492
⚠	OWNERS MANUAL(RU)	1EMN23493
⚠	OWNERS MANUAL(UA)	1EMN23494

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a ⚠ have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice in this service manual. Don't degrade the safety of the product through improper servicing.

NOTES:

1. Parts that are not assigned part numbers (---------) are not available.
2. Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25%	D.....±0.5%	F.....±1%
G.....±2%	J.....±5%	K.....±10%
M.....±20%	N.....±30%	Z.....+80/-20%

DIGITAL MAIN CBA UNIT

Ref. No.	Description	Part No.
	DIGITAL MAIN CBA UNIT	A8CF0MMA-001

MMA CBA

Ref. No.	Description	Part No.
	MMA CBA Consists of the following:	A8CF0MPS-001
	POWER SUPPLY CBA IR SENSOR CBA FUNCTION CBA JUNCTION-A CBA JUNCTION-B CBA	---------- ---------- ---------- ---------- ----------

POWER SUPPLY CBA

Ref. No.	Description	Part No.
	POWER SUPPLY CBA Consists of the following:	----------
	CAPACITORS	
C200	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C201	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C202	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C203	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C204	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C205	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C206	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C207	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C208	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C209	CHIP CERAMIC CAP. F Z 0.047μF/50V	CHD1JZ30F473
C210	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C211	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C212	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C213	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C214	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C215	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C216	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C217	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C218	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C219	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C220	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C221	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C222	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C223	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C224	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C225	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C226	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C227	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C228	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C229	ELECTROLYTIC CAP. 470μF/10V M	CE1AMASDL471
C231	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C243	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C244	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C251	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C252	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C254	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C256	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C257	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C258	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C260	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C262	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C263	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C264	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C266	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C267	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C269	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C271	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C273	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C274	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C279	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C280	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C281	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C282	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C283	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C284	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C285	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C286	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C287	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C288	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C289	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C290	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C291	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C292	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C293	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C294	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C295	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C296	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C297	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C300	ELECTROLYTIC CAP. 470μF/10V M	CE1AMASDL471
C301	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C302	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C303	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C304	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C305	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C306	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C307	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C309	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C310	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C311	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C313	ELECTROLYTIC CAP. 470μF/10V M	CE1AMASDL471
C314	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C315	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C316	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C317	CHIP CERAMIC CAP.(1608) CH J 33pF/50V	CHD1JJ3CH330
C318	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C319	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C320	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C322	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105

Ref. No.	Description	Part No.
C323	CHIP CERAMIC CAP.(1608) CH J 390pF/50V	CHD1JJ3CH391
C324	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C327	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C328	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C329	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C330	ELECTROLYTIC CAP. 220μF/6.3V M H7	CE0KMAVSL221
C331	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C332	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C333	ELECTROLYTIC CAP. 100μF/10V M H7	CE1AMAVSL101
C334	ELECTROLYTIC CAP. 100μF/10V M H7	CE1AMAVSL101
C335	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C336	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C337	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C338	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C400⚠	CAP ELE 180μF/400V/M/LS/D30 or	CA2H181V8008
⚠	CAP ELE 180μF/400V/M/LS/D22	CA2H181V8006
C401	CERAMIC CAP. BN 470pF/2KV or	CCD3DKA0B471
	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
	CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C402	POLYESTER FILM CAP. (PB FREE) 0.01μF/ 100V J or	CA2A103DT018
	CAP POLYESTER FILM 0.01μF/100V J	CA2A103SER02
C404	POLYESTER FILM CAP. (PB FREE) 0.047μF/ 100V J or	CA2A473DT018
	CAP POLYESTER FILM 0.047μF/100V J	CA2A473SER02
C407	POLYESTER FILM CAP. (PB FREE) 0.039μF/ 100V J or	CA2A393DT018
	CAP POLYESTER FILM 0.039μF/100V J	CA2A393SER02
C501	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C511	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C512	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C515	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C516	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C517	CHIP CERAMIC CAP.(1608) CH J 100pF/50V	CHD1JJ3CH101
C518	ELECTROLYTIC CAP. 100μF/10V M H7	CE1AMAVSL101
C519	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C520	CHIP CERAMIC CAP.(1608) CH J 47pF/50V	CHD1JJ3CH470
C524	ELECTROLYTIC CAP. 33μF/16V M H7	CE1CMAVSL330
C525	CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C526	ELECTROLYTIC CAP. 1μF/50V M	CE1JMASDL1R0
C527	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C528	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C600	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C601	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C607⚠	SAFETY CAP. 2200pF/250V KX or	CA2E222MR050
⚠	SAFTY CAP. 2200pF/250V KX or	CA2E222MR101
⚠	CAP CERAMIC 2200pF/250V/M	CA2E222MR086
C633	ELECTROLYTIC CAP. 470μF/25V M	CE1EMASDL471
C634	ELECTROLYTIC CAP 3300μF/10V or	CE1AMZNDL332
	ELECTROLYTIC CAP. 3300μF/10V M	CE1AMZPDL332
C635	POLYESTER FILM CAP. (PB FREE) 0.0022μF/ 100V J or	CA2A222DT018
	CAP POLYESTER FILM 0.0022μF/100V J	CA2A222SER02
C638	ELECTROLYTIC CAP. 1000μF/35V M or	CE1GMZADL102
	ELECTROLYTIC CAP. 1000μF/35V M	CE1GMZPDL102
C639	ELECTROLYTIC CAP. 220μF/50V M or	CE1JMZADL221
	ELECTROLYTIC CAP 220μF/50V M or	CE1JMZNDL221
	ELECTROLYTIC CAP 220μF/50V M	CE1JMZPDL221
C642	CAP ELE STD-85 4700μF 6.3V SL or	CE0KMZNDL472
	ELECTROLYTIC CAP. 4700μF/6.3V SM	CE0KMZPDL472
C643	ELECTROLYTIC CAP. 1000μF/10V M	CE1AMASDL102
C644	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C650	ELECTROLYTIC CAP. 100μF/16V M H7	CE1CMAVSL101
C651	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C652	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C653	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C654	ELECTROLYTIC CAP. 1000μF/10V M	CE1AMASDL102
C655	ELECTROLYTIC CAP. 1000μF/10V M	CE1AMASDL102
C656	ELECTROLYTIC CAP. 1000μF/6.3V M	CE0KMASDL102

Ref. No.	Description	Part No.
C657	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C658	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C659	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C660	ELECTROLYTIC CAP. 22μF/50V M	CE1JMASDL220
C661	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C662	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C663	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C664	ELECTROLYTIC CAP 3300μF/6.3V M or	CE0KMZNDL332
	ELECTROLYTIC CAP. 3300μF/6.3V SM	CE0KMZPDL332
C666	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C668	CHIP CERAMIC CAP.(1608) F Z 0.1μF/50V	CHD1JZ30F104
C669	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C670	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C671	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C672	ELECTROLYTIC CAP. 220μF/10V M	CE1AMASDL221
C701	ELECTROLYTIC CAP. 100μF/10V M	CE1AMASDL101
C702	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C703	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C704	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C705	CHIP CERAMIC CAP. B K 330pF/50V	CHD1JK30B331
C706	ELECTROLYTIC CAP. 47μF/16V M	CE1CMASDL470
C707	CHIP CERAMIC CAP. B K 330pF/50V	CHD1JK30B331
C708	CHIP CERAMIC CAP.(1608) CH J 68pF/50V	CHD1JJ3CH680
C709	CHIP CERAMIC CAP.(1608) CH J 68pF/50V	CHD1JJ3CH680
C712	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C713	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C714	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C715	CHIP CERAMIC CAP.(1608) CH D 10pF/50V	CHD1JD3CH100
C716	CHIP CERAMIC CAP.(1608) CH D 10pF/50V	CHD1JD3CH100
C717	CHIP CERAMIC CAP.(1608) CH D 10pF/50V	CHD1JD3CH100
C718	CHIP CERAMIC CAP.(1608) CH D 10pF/50V	CHD1JD3CH100
C803	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C804	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C805	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C806	ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASDL2R2
C807	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C808	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C809	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C810	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C811	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C812	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C813	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C814	CHIP CERAMIC CAP. F Z 2.2μF/10V	CHD1AZ30F225
C815	ELECTROLYTIC CAP. 2.2μF/50V M	CE1JMASDL2R2
C816	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C817	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C818	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C819	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C820	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C821	ELECTROLYTIC CAP. 100μF/16V M	CE1CMASDL101
C824	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C825	CHIP CERAMIC CAP. F Z 0.47μF/10V	CHD1AZ30F474
C834	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C835	CAP CERAMIC (AX) 0.1μF/50V/F/Z	CA1J104TU062
C838	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C839	CHIP CERAMIC CAP.(1608) B K 1μF/10V	CHD1AK30B105
C840	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C841	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C842	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C843	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C861	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C862	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C863	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C864	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C865	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104

Ref. No.	Description	Part No.
	CONNECTORS	
CN101A	FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or	JCFNG25JG019
	FFC CONNECTOR IMSA-9615S-25A-PP-A	JC96J25ER007
CN102A	FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or	JCFNG25JG019
	FFC CONNECTOR IMSA-9615S-25A-PP-A	JC96J25ER007
CN102	242 SERIES CONNECTOR 224202106W1	J322C06TG001
CN103A	FMN CONNECTOR TOP 23P 23FMN-BTK-A(FL)(SN) or	JCFNG23JG019
	FFC CONNECTOR IMSA-9615S-23A-PP-A	JC96J23ER007
CN104A	FMN CONNECTOR TOP25P 25FMN-BTK-A(LF)(SN) or	JCFNG25JG019
	FFC CONNECTOR IMSA-9615S-25A-PP-A	JC96J25ER007
CN801	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or	J3PHC02JG029
	CONNECTOR PRINT OSU TOP 2P 440054-2	J344C02AP001
CN802	PH CONNECTOR TOP 2P B2B-PH-K-S (LF)(SN) or	J3PHC02JG029
	CONNECTOR PRINT OSU TOP 2P 440054-2	J344C02AP001
	DIODES	
D206	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D207	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D208	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D209	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D300	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D302	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D304	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D306	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D308	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D310	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D311	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D312	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D313	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D314	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D315	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D316	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D317	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D318	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D320	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D322	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D324	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D326	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D328	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D329	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Description	Part No.
D330	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D331	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D332	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D333	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D334	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D335	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D336	ZENER DIODE MTZJT-773.3B or	QDTB0MTZJ3R3
	DIODE ZENER 3V3BSB-T26	NDTB3R3BST26
D337	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D338	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D401	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D402⚠	ZENER DIODE MTZJT-7727B or	QDTB00MTZJ27
⚠	DIODE ZENER 27BSB-T26	NDTB027BST26
D403	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D404	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D405	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D406⚠	DIODE ZENER 1ZC18(Q) or	QDLZ001ZC18Q
⚠	DIODE ZENER 1ZB18BB	NDWZ0001ZB18
D515	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D516	ZENER DIODE MTZJT-7733B or	QDTB00MTZJ33
	DIODE ZENER 33BSB-T26	NDTB033BST26
D517	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D600	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D601	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D602	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D604	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D605	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D606	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D607	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D608	ZENER DIODE MTZJT-776.8A or	QDTA0MTZJ6R8
	DIODE ZENER 6V8BSA-T26	NDTA6R8BST26
D609	DIODE FR104-B or	NDLZ000FR104
	DIODE FR104BB	NDL1000FR104
D611	ZENER DIODE MTZJT-7710B or	QDTB00MTZJ10
	DIODE ZENER 10BSB-T26	NDTB010BST26
D612	ZENER DIODE MTZJT-773.3B or	QDTB0MTZJ3R3
	DIODE ZENER 3V3BSB-T26	NDTB3R3BST26
D613	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D614	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D620	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D631	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D632	SCHOTTKY BARRIER DIODE ERB81-004 or	AERB81004***

Ref. No.	Description	Part No.
	SCHOTTKY BARRIER DIODE SB240-B/P or	NDQZ000SB240
	SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D633	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D634	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AZ431BZ-ATRE1	NSZBA0TBCD01
D635	ZENER DIODE MTZJT-7720B or	QDTB00MTZJ20
	DIODE ZENER 20BSB-T26	NDTB020BST26
D636	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D637	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D638	DIODE SCHOTTKY ERC84-009L or	QD4ZERC84009
	SCHOTTKY BARRIER DIODE SB390 or	NDQZ000SB390
	SCHOTTKY BARRIER DIODE SB390	NDWZ000SB390
D640	SCHOTTKY BARRIER DIODE ERC81-004 or	QDPZERC81004
	SCHOTTKY BARRIER DIODE SB340 or	NDQZ000SB340
	SCHOTTKY BARRIER DIODE SB340	NDWZ000SB340
D641	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D642	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D644	DIODE 1ZC43(Q) or	QDLZ001ZC43Q
	DIODE ZENER 1ZB43BB	NDWZ0001ZB43
D645	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D646	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D647	SCHOTTKY BARRIER DIODE ERB81-004 or	AERB81004***
	SCHOTTKY BARRIER DIODE SB240-B/P or	NDQZ000SB240
	SCHOTTKY BARRIER DIODE SB240-B/P	NDWZ000SB240
D648	IC SHUNT REGULATOR KIA431-AT/P or	NSZBA0TJY036
	IC SHUNT REGULATOR SL431A-AT or	NSZBA0TAUK01
	IC SHUNT REGULATOR AZ431BZ-ATRE1	NSZBA0TBCD01
D649	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D650	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D651	DIODE FR104-B or	NDLZ000FR104
	DIODE FR104BB	NDL1000FR104
D652	ZENER DIODE MTZJT-7724A or	QDTA00MTZJ24
	DIODE ZENER 24BSA-T26	NDTA024BST26
D654	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D655	ZENER DIODE MTZJT-776.8C or	QDTC0MTZJ6R8
	DIODE ZENER 6V8BSC-T26	NDTC6R8BST26
D656	ZENER DIODE MTZJT-776.2C or	QDTC0MTZJ6R2
	DIODE ZENER 6V2BSC-T26	NDTC6R2BST26
D657	DIODE FR154 or	NDLZ000FR154
	DIODE FR154BD	NDL1000FR154
D658	ZENER DIODE MTZJT-775.6C or	QDTC0MTZJ5R6
	DIODE ZENER 5V6BSC-T26	NDTC5R6BST26
D660	ZENER DIODE MTZJT-776.8B or	QDTB0MTZJ6R8
	DIODE ZENER 6V8BSB-T26	NDTB6R8BST26
D667	SCHOTTKY BARRIER DIODE ERA81-004Q or	QDLZRA81004Q
	SCHOTTKY BARRIER DIODE SB140	NDWZ000SB140
D669	SCHOTTKY BARRIER DIODE ERB81-004 or	AERB81004***
	SCHOTTKY BARRIER DIODE SB270-B/P	NDWZ000SB270
D670	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D671	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D802	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D804	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D807	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D816	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D819	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D823	ZENER DIODE MTZJT-773.3B or	QDTB0MTZJ3R3
	DIODE ZENER 3V3BSB-T26	NDTB3R3BST26
D830	ZENER DIODE MTZJT-7718B or	QDTB00MTZJ18
	DIODE ZENER 18BSB-T26	NDTB018BST26
D831	ZENER DIODE MTZJT-7718B or	QDTB00MTZJ18
	DIODE ZENER 18BSB-T26	NDTB018BST26
D832	ZENER DIODE MTZJT-7718B or	QDTB00MTZJ18
	DIODE ZENER 18BSB-T26	NDTB018BST26
D833	ZENER DIODE MTZJT-7718B or	QDTB00MTZJ18
	DIODE ZENER 18BSB-T26	NDTB018BST26
	ICS	
IC200	IC INTERFACE R2S11007FP	QSZBA0RHT054
IC300	IC HEADPHONE AMP BH3547F SOP 8PIN	QSZBA0TRM119
IC603⚠	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC637	IC LD1117V or	NSZBA0SSS046
	IC REGULATOR UTC1117TA or	NSZBA0S2H004
	VOLTAGE REGULATOR UZ1086L-ADJ	NSZBA0SUTC02
IC701	IC(AUDIO D/A) PCM1782DBQR	NSZBA0TTY192
IC702	IC OP AMP NJM4558M(TE1)-#ZZZB or	QSZBA0TJR089
	IC OPAMP KIA4558F-EL/P FLP 8P	NSZBA0TJY057
IC801	IC POWER AMP R2A15108SN	QSZBA0THT074
	COILS	
L200	INDUCTOR 100μH-J-5FT	LLARJCSTU101
L201	INDUCTOR 100μH-J-26T	LLAXJATTU101
L202	INDUCTOR 100μH-J-26T	LLAXJATTU101
L203	INDUCTOR 100μH-J-5FT	LLARJCSTU101
L204	INDUCTOR 100μH-J-5FT	LLARJCSTU101
L300	INDUCTOR 4.7μH-J-26T	LLAXJATTU4R7
L301	INDUCTOR 4.7μH-J-26T	LLAXJATTU4R7
L302	INDUCTOR 12μH-J-26T	LLAXJATTU120
L303	INDUCTOR 12μH-J-26T	LLAXJATTU120
L501	PCB JUMPER D0.6-P5.0	JW5.0T
L502	INDUCTOR 10μH-K-5FT	LLARKBSTU100
L503	PCB JUMPER D0.6-P5.0	JW5.0T
L801	CHOKE COIL(22μH) LHL10NB220K	LLARKGQTU220
L802	CHOKE COIL(22μH) LHL10NB220K	LLARKGQTU220
L803	CHOKE COIL(22μH) LHL10NB220K	LLARKGQTU220
L804	CHOKE COIL(22μH) LHL10NB220K	LLARKGQTU220
	TRANSISTORS	
Q300	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	TRANSISTOR 2SA1015-Y(TE2 F T)	QQSY2SA1015F
Q301	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q302	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	TRANSISTOR 2SA1015-Y(TE2 F T)	QQSY2SA1015F
Q303	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M

Ref. No.	Description	Part No.
Q304	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q305	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q400⚠	FET 2SK3566(Q)	QFWZ02SK3566
Q401⚠	TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
⚠	TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
⚠	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
⚠	NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q505	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	TRANSISTOR 2SA1015-Y(TE2 F T)	QQSY2SA1015F
Q600	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q601	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q602	TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
	TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q631	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q632	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	TRANSISTOR 2SA1015-Y(TE2 F T)	QQSY2SA1015F
Q633	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q634	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q637	NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
	TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
	NPN TRANSISTOR STC403	NQEZ00STC403
Q638	NPN TRANSISTOR POWER 2SC4881F HFE MAX320 or	QQWZ2SC4881F
	TRANSISTOR(PB FREE) KTC2026-Y/P or	NQEYKTC2026P
	NPN TRANSISTOR STC403	NQEZ00STC403
Q639	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	PNP TRANSISTOR 2SA1980M Y or	NQSY2SA1980M
	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	TRANSISTOR 2SA1015-Y(TE2 F T)	QQSY2SA1015F
Q645	TRANSISTOR 2SD400(E) or	QQUE002SD400
	TRANSISTOR 2SD400(F) or	QQUF002SD400
	TRANSISTOR KTC3205-Y-AT/P or	NQSYKTC3205P
	TRANSISTOR KTC3205OAT	NQS00KTC3205
Q646	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q650	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q671	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
Q802	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343G-AT or	NQSG02SC5343
	NPN TRANSISTOR 2SC5343MG-AT	NQSG2SC5343M
	RESISTORS	
R201	PCB JUMPER D0.6-P5.0	JW5.0T
R202	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R203	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R204	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R205	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R215	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R216	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R217	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R218	CHIP RES.(1608) 1/10W F 75 Ω or	RRXAFR5H75R0
	CHIP RES. 1/10W F 75 Ω or	RRXAFR5Z75R0
	RES CHIP 1608 1/10W F 75 Ω	RTW75R0YF002
R219	CHIP RES.(1608) 1/10W F 75 Ω or	RRXAFR5H75R0
	CHIP RES. 1/10W F 75 Ω or	RRXAFR5Z75R0
	RES CHIP 1608 1/10W F 75 Ω	RTW75R0YF002
R220	CHIP RES.(1608) 1/10W F 75 Ω or	RRXAFR5H75R0
	CHIP RES. 1/10W F 75 Ω or	RRXAFR5Z75R0
	RES CHIP 1608 1/10W F 75 Ω	RTW75R0YF002
R221	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R222	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R223	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R224	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R226	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R227	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R228	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R229	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002

Ref. No.	Description	Part No.
R230	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R231	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R232	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R233	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R234	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R235	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R236	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R238	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R240	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R249	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R250	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R300	CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
	RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R301	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R302	CHIP RES. 1/10W J 360 Ω or	RRXAJR5Z0361
	RES CHIP 1608 1/10W J 360 Ω	RRXA361YF002
R303	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R304	CHIP RES. 1/10W J 680 Ω or	RRXAJR5Z0681
	RES CHIP 1608 1/10W J 680 Ω	RRXA681YF002
R305	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R306	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R307	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R308	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R309	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R310	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R311	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R312	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R313	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R314	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R315	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R316	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R318	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R319	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R320	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R322	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R323	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R324	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R325	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R326	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R327	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R328	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R329	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R330	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R331	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R332	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R333	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R334	CHIP RES. 1/10W J 6.8k Ω or	RRXAJR5Z0682
	RES CHIP 1608 1/10W J 6.8k Ω	RRXA682YF002
R335	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R336	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R337	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R338	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R339	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R340	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R342	CHIP RES. 1/10W J 2.4k Ω or	RRXAJR5Z0242
	RES CHIP 1608 1/10W J 2.4k Ω	RRXA242YF002
R343	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R344	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R346	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R348	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R350	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R351	PCB JUMPER D0.6-P5.0	JW5.0T
R352	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R353	CHIP RES. 1/10W J 470 Ω or	RRXAJR5Z0471
	RES CHIP 1608 1/10W J 470 Ω	RRXA471YF002
R354	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R355	CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
	RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R356	CHIP RES. 1/10W J 360 Ω or	RRXAJR5Z0361
	RES CHIP 1608 1/10W J 360 Ω	RRXA361YF002
R357	CHIP RES. 1/10W J 680 Ω or	RRXAJR5Z0681
	RES CHIP 1608 1/10W J 680 Ω	RRXA681YF002
R358	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R361	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R362	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R400	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R401	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R402	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824

Ref. No.	Description	Part No.
R403	CARBON RES. 1/4W J 820k Ω	RCX4JATZ0824
R404	CARBON RES. 1/4W J 390k Ω	RCX4JATZ0394
R405	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R406	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R407	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R409⚠	METAL OXIDE FILM RES. 2W J 0.68 Ω or	RN02R68DP004
⚠	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68ZU001
R411	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R412	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R413	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R415	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R538	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R539	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R547	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R548	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R550	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R554	METAL OXIDE FILM RES. 1W J 330 Ω or	RN01331DP003
	METAL OXIDE FILM RES. 1W J 330 Ω	RN01331ZU001
R601	PCB JUMPER D0.6-P5.0	JW5.0T
R605	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R606	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R607	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R609	CHIP RES. 1/10W J 4.7k Ω or	RRXAJR5Z0472
	RES CHIP 1608 1/10W J 4.7k Ω	RRXA472YF002
R610	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R615	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R618	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5H0332
	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5Z0332
	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R619	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R620	METAL OXIDE FILM RES. 1W J 1 Ω or	RN011R0DP003
	METAL OXIDE FILM RES. 1W J 1 Ω	RN011R0ZU001
R622	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R623	CARBON RES. 1/4W J 470 Ω	RCX4JATZ0471
R624	PCB JUMPER D0.6-P5.0	JW5.0T
R627	PCB JUMPER D0.6-P5.0	JW5.0T
R628	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R631	METAL OXIDE FILM RES. 1W J 4.7 Ω or	RN014R7DP003
	METAL OXIDE FILM RES. 1W J 4.7 Ω	RN014R7ZU001
R632	CHIP RES.(1608) 1/10W F 4.7k Ω or	RRXAFR5H0472
	CHIP RES. 1/10W F 4.7k Ω or	RRXAFR5Z0472
	RES CHIP 1608 1/10W F 4.70k Ω	RTW4701YF002
R633	PCB JUMPER D0.6-P5.0	JW5.0T
R634	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R635	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R636	CHIP RES.(1608) 1/10W F 4.7k Ω or	RRXAFR5H0472
	CHIP RES. 1/10W F 4.7k Ω or	RRXAFR5Z0472
	RES CHIP 1608 1/10W F 4.70k Ω	RTW4701YF002
R637	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R638	CHIP RES. 1/10W J 1.5k Ω or	RRXAJR5Z0152
	RES CHIP 1608 1/10W J 1.5k Ω	RRXA152YF002
R640	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5H2201
	CHIP RES. 1/10W F 2.2k Ω or	RRXAFR5Z0222
	RES CHIP 1608 1/10W F 2.20k Ω	RTW2201YF002
R641	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R642	CARBON RES. 1/4W J 2.7k Ω	RCX4JATZ0272
R644	PCB JUMPER D0.6-P5.0	JW5.0T

Ref. No.	Description	Part No.
R645	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R646	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R647	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R648	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R651	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R652	CARBON RES. 1/4W J 27k Ω	RCX4JATZ0273
R653	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R654	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R655	CHIP RES.(1608) 1/10W F 1k Ω or	RRXAFR5H0102
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z0102
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R656	CARBON RES. 1/4W J 68 Ω	RCX4JATZ0680
R658	CHIP RES. 1/10W F 620 Ω or	RRXAFR5H6200
	CHIP RES. 1/10W F 620 Ω or	RRXAFR5Z6200
	RES CHIP 1608 1/10W F 620 Ω	RTW6200YF002
R660	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R662	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R663	METAL OXIDE FILM RES. 1W J 0.27 Ω or	RN01R27DP003
	METAL OXIDE FILM RES. 1W J 0.27 Ω	RN01R27ZU001
R664	CHIP RES.(1608) 1/10W F 10k Ω or	RRXAFR5H0103
	CHIP RES. 1/10W F 10k Ω or	RRXAFR5Z0103
	RES CHIP 1608 1/10W F 10.0k Ω	RTW1002YF002
R666	CARBON RES. 1/4W J 270 Ω	RCX4JATZ0271
R667	CARBON RES. 1/4W J 10 Ω	RCX4JATZ0100
R668	CHIP RES.(1608) 1/10W F 3.3k Ω or	RRXAFR5H0332
	CHIP RES. 1/10W F 3.3k Ω or	RRXAFR5Z0332
	RES CHIP 1608 1/10W F 3.30k Ω	RTW3301YF002
R670	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R671	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R672	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R673	CARBON RES. 1/4W J 1.8k Ω	RCX4JATZ0182
R674	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R675	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R676	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R677	CARBON RES. 1/4W J 22k Ω	RCX4JATZ0223
R684	CHIP RES. 1/10W J 56k Ω or	RRXAJR5Z0563
	RES CHIP 1608 1/10W J 56k Ω	RRXA563YF002
R687	CARBON RES. 1/4W J 12k Ω	RCX4JATZ0123
R688	CARBON RES. 1/4W J 120 Ω	RCX4JATZ0121
R689	CARBON RES. 1/4W J 8.2k Ω	RCX4JATZ0822
R693	CARBON RES. 1/4W J 680 Ω	RCX4JATZ0681
R694	PCB JUMPER D0.6-P15.0	JW15.0T
R695	PCB JUMPER D0.6-P15.0	JW15.0T
R698	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R701	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R702	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R703	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R704	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R705	CHIP RES. 1/10W J 62k Ω or	RRXAJR5Z0623
	RES CHIP 1608 1/10W J 62k Ω	RRXA623YF002
R706	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R710	CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
	RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R713	CHIP RES. 1/10W J 62k Ω or	RRXAJR5Z0623
	RES CHIP 1608 1/10W J 62k Ω	RRXA623YF002

Ref. No.	Description	Part No.
R714	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R717	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R718	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R720	CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
	RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R721	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R723	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R805	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R807	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R808	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R809	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R811	CHIP RES. 1/10W J 560 Ω or	RRXAJR5Z0561
	RES CHIP 1608 1/10W J 560 Ω	RRXA561YF002
R813	CHIP RES. 1/10W J 39k Ω or	RRXAJR5Z0393
	RES CHIP 1608 1/10W J 39k Ω	RRXA393YF002
R814	CHIP RES. 1/10W J 18k Ω or	RRXAJR5Z0183
	RES CHIP 1608 1/10W J 18k Ω	RRXA183YF002
R816	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R817	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R819	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R853	PCB JUMPER D0.6-P5.0	JW5.0T
R854	PCB JUMPER D0.6-P5.0	JW5.0T
R879	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R880	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R881	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R882	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R883	CHIP RES. 1/10W J 75 Ω or	RRXAJR5Z0750
	RES CHIP 1608 1/10W J 75 Ω	RRXA750YF002
R885	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R887	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
R888	CHIP RES.(1608) 1/10W 0 Ω or	RRXAZR5Z0000
	RES CHIP 1608 1/10W J 0 Ω	RRXA000YF002
MISCELLANEOUS		
B17	MODULE HEAT SINK PMC P7150UT	1EM423968
B42	HEAT SINK PMI ASSEMBLY A71F0UH	1EM424257
BC400	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC401	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC601	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC702	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC801	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC802	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC803	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC804	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC817	PCB JUMPER D0.6-P5.0	JW5.0T
CLN400	WIRE ASSEMBLY ANALOG-INV 2PIN 2PIN/ 90MM/AWG18	WX1A8CF0-006
JK202	JACK RCA PCB S 03 RCA-347HT-03 or	JXRJ030YUQ01
	JACK RCA PCB S MTJ-032-45BBB-25 FEL	JXRJ030LY034
JK203	Y/C JACK YKF51-5646N or	JYEJ040JC001
	JACK SW DIN PCB S 04/DIN-417HA-01 or	JYEJ040YUQ03
	JACK SW DIN PCB S 04 MDC-076H-A LF	JYEJ040LY002
JK204	JACK SW RCA PCB S RCA-347HDT-02 or	JYRJ030YUQ01
	JACK SW RCA PCB S 03 MTJ-032-45BBA-432	JYRJ030LY029
JK205	JACK HPEP SML PCB S PJ-358H or	JXSJ020YUQ01
	JACK HPEP SML PCB S 02 MSJ-035-29D (ABS)	JXSJ020LY001
JK206	JACK SW RCA PCB S RCA-228H(2)NI-01 or	JYRJ020YUQ02
	JACK SW RCA PCB S 02 MTJ-032-31BA-32	JYRJ020LY028
JK301	JACK RGB PCB S 21PIN / MRC-021H-02	JXGJ210LY001
JK302	JACK RGB PCB S 21PIN / MRC-021H-02	JXGJ210LY001
JK303	JACK SE HPEP SML PCM S MSJ-035-04A LF or	JYSJ020LY002
	JACK SW HPEP SML PCB S PJ-362H-7	JYSJ020YUQ02
JS651	PCB JUMPER D0.6-P5.0	JW5.0T
JS652	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
JS653	PCB JUMPER D0.6-P10.0	JW10.0T
JS654	PCB JUMPER D0.6-P15.0	JW15.0T
L7	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
T400⚠	TRANS POWER 8721	LTT2PE0KT046

IR SENSOR CBA

Ref. No.	Description	Part No.
	IR SENSOR CBA Consists of the following:	----------
CAPACITORS		
C101	ELECTROLYTIC CAP. 47μF/16V M H7	CE1CMAVSL470
C107	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
DIODES		
D101	LED L-53HT or	NP4Z000L53HT
	LED 333HT/E-L or	NPHL00333HTE
	LED 333HT/E-K	NPHK00333HTE
D102	LED(GREEN) LTL-4234 or	NPWZ0LTL4234
	LED GREEN 333GT/E(FNA)	NPWZ33GTEFNA
RESISTORS		
R101	CARBON RES. 1/4W J 100 Ω	RCX4JATZ0101
R102	CARBON RES. 1/4W J 3.3k Ω	RCX4JATZ0332
R103	CHIP RES. 1/10W J 330 Ω or	RRXAJR5Z0331
	RES CHIP 1608 1/10W J 330 Ω	RRXA331YF002
R104	CHIP RES. 1/10W J 220 Ω or	RRXAJR5Z0221
	RES CHIP 1608 1/10W J 220 Ω	RRXA221YF002
R105	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
MISCELLANEOUS		
BC101	PCB JUMPER D0.6-P5.0	JW5.0T
RCV101	SENSOR REMOTE RECEIVER KSM-712TH2E	USESJRSKK044

FUNCTION CBA

Ref. No.	Description	Part No.
	FUNCTION CBA Consists of the following:	----------
CAPACITORS		
C109	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
C110	CHIP CERAMIC CAP.(1608) F Z 0.1μF/25V	CHD1EZ30F104
DIODES		
D108	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
RESISTORS		
R120	CARBON RES. 1/4W G 6.8k Ω	RCX4GATZ0682
R121	CARBON RES. 1/4W G 4.7k Ω	RCX4GATZ0472
R122	CARBON RES. 1/4W G 2.7k Ω	RCX4GATZ0272
R123	CARBON RES. 1/4W G 2.2k Ω	RCX4GATZ0222
R124	CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R125	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R126	CARBON RES. 1/4W G 1.5k Ω	RCX4GATZ0152
R127	CARBON RES. 1/4W J 10k Ω	RCX4JATZ0103
SWITCHES		
SW108	TACT SWITCH SKQSAB or	SST0101AL038

Ref. No.	Description	Part No.
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW109	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW110	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW111	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW112	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW113	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
SW114	TACT SWITCH SKQSAB or	SST0101AL038
	TACT SWITCH TC-1104(H=5.0) or	SST0101DNG02
	TACT SWITCH KSM0612B	SST0101HH003
	MISCELLANEOUS	
BC102	PCB JUMPER D0.6-P5.0	JW5.0T
CL102B	WIRE ASSEMBLY 003 3PIN / 140MM / AWG26	WX1A8AF0-003

JUNCTION-A CBA

Ref. No.	Description	Part No.
	JUNCTION-A CBA Consists of the following:	----------
	CONNECTOR	
CN101	242 SERIES CONNECTOR TUC-P06X-B1 WHT ST	JCTUB06TG002
	MISCELLANEOUS	
CL101B	WIRE ASSEMBLY 6PIN 6PIN/290MM/AWG26	WX1A8CF0-007

JUNCTION-B CBA

Ref. No.	Description	Part No.
	JUNCTION-B CBA Consists of the following:	----------
	CONNECTOR	
CN804	242 SERIES CONNECTOR TUC-P04X-B1 WHT ST	JCTUB04TG002
	MISCELLANEOUS	
CN803B	WIRE ASSEMBLY 4PIN / 90MM / AWG26	WX1A8AF0-001

INVERTER CBA

Ref. No.	Description	Part No.
	INVERTER CBA Consists of the following:	A8CF0MUT-001
	CAPACITORS	
C1000	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1001	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C1002	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1003	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1004	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1005	CHIP CERAMIC CAP.(1608) CH J 1000pF/50V	CHD1JJ3CH102
C1006	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C1007	CHIP CERAMIC CAP. CH J 330pF/50V	CHD1JJ3CH331
C1008	CHIP CERAMIC CAP.(1608) B K 2.2μF/10V	CHD1AK30B225
C1009	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1010	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1011	CHIP CERAMIC CAP.(1608) B K 0.47μF/10V	CHD1AK30B474
C1012	CHIP CERAMIC CAP.(1608) B K 0.47μF/10V	CHD1AK30B474
C1014	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1015	ELECTROLYTIC CAP. 470μF/35V M or	CE1GMZNDL471
	ELECTROLYTIC CAP. 470μF/35V M	CE1GMZPDL471
C1016	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1017	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1018	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1019	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1020	CHIP CERAMIC CAP.(1608) B K 0.1μF/50V	CHD1JK30B104
C1021	CHIP CERAMIC CAP. F Z 1μF/10V	CHD1AZ30F105
C1022	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1023	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1032	ELECTROLYTIC CAP. 47μF/35V M	CE1GMASDL470
C1040	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1044	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C1046	CHIP CERAMIC CAP.(1608) B K 1μF/25V	CHD1EK30B105
C1061	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1063	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1064	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1066	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1067	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1101	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1103	CHIP CERAMIC CAP.(1608) B K 1000pF/50V	CHD1JK30B102
C1104	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C1105	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C1106	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C1107	CHIP CERAMIC CAP. CH J 220pF/50V	CHD1JJ3CH221
C1111	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1113	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1114	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1116	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1117	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1161	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1163	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1164	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1166	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1167	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1211	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1213	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1214	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1216	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1217	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1261	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1263	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1264	CAP CERAMIC HV SL D 15pF/3KV or	CCD3FJPSL150
	CAP CERAMIC HV 15pF/3.15KV/SL/J	CCD3FJASL150
C1266	CHIP CERAMIC CAP. B K 2200pF/50V	CHD1JK30B222
C1267	CHIP CERAMIC CAP.(1608) B K 0.01μF/50V	CHD1JK30B103
C1362	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1365	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1412	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1415	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1462	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1465	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1500	CHIP CERAMIC CAP.(1608) F Z 0.22μF/50V	CHD1JZ30F224
C1502	CHIP CERAMIC CAP.(1608) F Z 0.22pF/50V	CHD1JZ30F224
C1512	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061

Ref. No.	Description	Part No.
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1515	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1550	CHIP CERAMIC CAP.(1608) F Z 0.22pF/50V	CHD1JZ30F224
C1552	CHIP CERAMIC CAP.(1608) F Z 0.22pF/50V	CHD1JZ30F224
C1562	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1565	CAP CERAMIC (AX) 1500pF/50V/B/K or	CA1J152TU061
	CERAMIC CAP.(AX) B 1500pF/50V	CCK1JKT0B152
C1701	ELECTROLYTIC CAP. 10μF/50V M	CE1JMASDL100
C1901⚠	METALIZED FILM CAP. 0.47μF/250V or	CT2E474MS037
⚠	CAP METALIZED FILM 0.47μF/300V K 3.5MM	CT2F474DC004
C1902⚠	METALIZED FILM CAP. 0.47μF/250V or	CT2E474MS037
⚠	CAP METALIZED FILM 0.47μF/300V K 3.5MM	CT2F474DC004
C1903	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C1904	CERAMIC CAP. B K 0.01μF/500V	CCD2JKP0B103
C1908⚠	SAFTY CAP. 1000pF/250V KX or	CA2E102MR101
⚠	SAFETY CAP. 1000pF/250V KX or	CA2E102MR050
⚠	CAP CERAMIC 1000pF/250V/M	CA2E102MR086
C1911	CAP ELE 270μF/400V/M/LS/D25	CA2H271V8007
C1930	CERAMIC CAP. BN 470pF/2KV or	CCD3DKA0B471
	CERAMIC CAP. 470pF/2KV or	CA3D471PAN04
	CERAMIC CAP. BL 470pF/2KV	CA3D471XF003
C1932	POLYESTER FILM CAP. (PB FREE) 0.01μF/ 100V J or	CA2A103DT018
	CAP POLYESTER FILM 0.01μF/100V J	CA2A103SER02
C1933	POLYESTER FILM CAP. (PB FREE) 0.056μF/ 100V J or	CA2A563DT018
	CAP POLYESTER FILM 0.056μF/100V J	CA2A563SER02
C1934	POLYESTER FILM CAP. (PB FREE) 0.0015μF/ 100V J or	CA2A152DT018
	CAP POLYESTER FILM 0.0015μF/100V J	CA2A152SER02
C1940	CERAMIC CAP. B K 2200pF/500V	CCD2JKS0B222
C1970	POLYESTER FILM CAP. (PB FREE) 0.0022μF/ 100V J or	CA2A222DT018
	CAP POLYESTER FILM 0.0022μF/100V J	CA2A222SER02
C1980	CHIP CERAMIC CAP. F Z 0.01μF/50V	CHD1JZ30F103
C1981	ELECTROLYTIC CAP. 0.47μF/50V M	CE1JMASDLR47
C1990	CERAMIC CAP. B K 2200pF/500V	CCD2JKS0B222
C1991⚠	CAP ELE STD-85 4700μF/35V SL or	CE1GMZNDL472
⚠	CAP ELE STD-85 4700μF/35V SL	CE1GMZPDL472
	CONNECTORS	
CN1000	242 SERIES CONNECTOR 224202104W1	J322C04TG001
CN1050	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
CN1100	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
CN1150	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
CN1200	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
CN1250	CONNECTOR PRINT OSU KW05-120-02-00	J30502KET001
CN1901	CONNECTOR B2P3-VH(LF)(SN)	J3VH020JG001
	DIODES	
D1000	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1001	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1002	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D1003	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D1004	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D1005	ZENER DIODE MTZJT-776.2B or	QDTB0MTZJ6R2
	DIODE ZENER 6V2BSB-T26	NDTB6R2BST26
D1006	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1008	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1021	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148

Ref. No.	Description	Part No.
D1042	ZENER DIODE MTZJT-7724B or	QDTB00MTZJ24
	DIODE ZENER 24BSB-T26	NDTB024BST26
D1043	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1045	ZENER DIODE MTZJT-7724B or	QDTB00MTZJ24
	DIODE ZENER 24BSB-T26	NDTB024BST26
D1046	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1060	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1061	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1062	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1063	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1064	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1065	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1066	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1067	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1068	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1110	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1111	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1112	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1113	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1114	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1115	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1116	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1117	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1118	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1160	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1161	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1162	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1163	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1164	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1165	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1166	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1167	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1168	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1210	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1211	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1212	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133

Ref. No.	Description	Part No.
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1213	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1214	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1215	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1216	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1217	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1218	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1260	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1261	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1262	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1263	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1264	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1265	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1266	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1267	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1268	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1501	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1502	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1503	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1550	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1551	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1552	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1553	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1702	ZENER DIODE MTZJT-773.3B or	QDTB0MTZJ3R3
	DIODE ZENER 3V3BSB-T26	NDTB3R3BST26
D1901⚠	DIODE 1N5408-B/P	NDLZ001N5408
D1902⚠	DIODE 1N5408-B/P	NDLZ001N5408
D1903⚠	DIODE 1N5408-B/P	NDLZ001N5408
D1904⚠	DIODE 1N5408-B/P	NDLZ001N5408
D1905	DIODE 1N5408-B/P	NDLZ001N5408
D1930	ZENER DIODE MTZJT-7727B or	QDTB00MTZJ27
	DIODE ZENER 27BSB-T26	NDTB027BST26
D1931	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1932	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1933	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1934	DIODE 1ZC36(Q) or	QDLZ001ZC36Q
	DIODE ZENER 1ZB36BB	NDWZ0001ZB36
D1936	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1940	DIODE FAST RECOVERY FR156BD or	NDWZ0FR156BD
	DIODE FAST RECOVERY FR156-B/P	NDWZ0FR156BP
D1970	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6

Ref. No.	Description	Part No.
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1971	ZENER DIODE MTZJT-775.6B or	QDTB0MTZJ5R6
	DIODE ZENER 5V6BSB-T26	NDTB5R6BST26
D1980	ZENER DIODE MTZJT-7736B or	QDTB00MTZJ36
	DIODE ZENER 36BSB-T26	NDTB036BST26
D1982	SWITCHING DIODE 1SS133(T-77) or	QDTZ001SS133
	DIODE SWITCHING HSS4148TE-E	QDTZ0HSS4148
D1990⚠	DIODE SCHOTTKY FD867-15L	QDWZFD86715L
D1991⚠	DIODE SCHOTTKY FD867-15L	QDWZFD86715L
D1992⚠	DIODE SCHOTTKY FD867-15L	QDWZFD86715L
D1994	DIODE 1ZC36(Q) or	QDLZ001ZC36Q
	DIODE ZENER 1ZB36BB	NDWZ0001ZB36
ICS		
IC1001	IC INVERTER CONTROLLER OZ9966SN-B1-0-TR/SSO	NSZBA0TTMC06
IC1500	IC BA10324AF-E2 or	QSZBA0TRM032
	IC(OPAMP) LM324NSR or	NSZBA0TTY190
	IC OP.AMP. LM324DT/SO-14/14PIN	NSZBA0TSS302
IC1550	IC BA10324AF-E2 or	QSZBA0TRM032
	IC(OPAMP) LM324NSR or	NSZBA0TTY190
	IC OP.AMP. LM324DT/SO-14/14PIN	NSZBA0TSS302
IC1930⚠	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
IC1931⚠	PHOTO COUPLER PS2561L1-1-A-V(L)	QPEL561L11AV
COILS		
L1901⚠	LINE FILTER MS036	LLBG00ZY2009
L1902⚠	LINE FILTER MS036	LLBG00ZY2009
TRANSISTORS		
Q1002	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343G-AT	NQSG02SC5343
Q1020	TRANSISTOR KTA1267-GR-AT/P or	NQS1KTA1267P
	TRANSISTOR KTA-1266-GR-AT/P or	NQS4KTA1266P
	TRANSISTOR 2SA1015-Y(TE2 F T) or	QQSY2SA1015F
	TRANSISTOR 2SA1015-GR(TE2 F T) or	QQS12SA1015F
	PNP TRANSISTOR 2SA1980MG-AT or	NQSG2SA1980M
	PNP TRANSISTOR 2SA1980M Y	NQSY2SA1980M
Q1100	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1101	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1102	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1103	FET POWER MOS SMD NP22N055SLE-E1-AZ	QF2ZNP22N055
Q1930⚠	POWER MOS FET 2SK3565(Q)	QFQZ2SK3565Q
Q1931	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343G-AT	NQSG02SC5343
Q1932	TRANSISTOR 2SC2120-Y(TE2 F T) or	QQSY2SC2120F
	TRANSISTOR 2SC2120-O(TE2 F T) or	QQS02SC2120F
	TRANSISTOR KTC3203-Y-AT/P or	NQSYKTC3203P
	NPN TRANSISTOR 2SC5344 Y	NQSY02SC5344
Q1970	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343G-AT	NQSG02SC5343
Q1971	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343G-AT	NQSG02SC5343
Q1972	TRANSISTOR KTC3199-GR-AT/P or	NQS4KTC3199P
	TRANSISTOR KTC3198-GR-AT/P or	NQS4KTC3198P
	TRANSISTOR 2SC1815-GR(TE2 F T) or	QQS12SC1815F
	NPN TRANSISTOR 2SC5343MG-AT or	NQSG2SC5343M
	NPN TRANSISTOR 2SC5343G-AT	NQSG02SC5343

Ref. No.	Description	Part No.
	RESISTORS	
R1000	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1001	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1002	CARBON RES. 1/4W J 5.1k Ω	RCX4JATZ0512
R1003	CHIP RES. 1/10W J 220k Ω or	RRXAJR5Z0224
	RES CHIP 1608 1/10W J 220k Ω	RRXA224YF002
R1005	CHIP RES. 1/10W F 160 k Ω or	RRXAFR5H1603
	CHIP RES.(1608) 1/10W F 160k Ω or	RRXAFR5Z1603
	RES CHIP 1608 1/10W F 160k Ω	RTW1603YF002
R1006	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1007	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1008	CHIP RES. 1/10W J 51k Ω or	RRXAJR5Z0513
	RES CHIP 1608 1/10W J 51k Ω	RRXA513YF002
R1009	CHIP RES. 1/10W F 1M Ω or	RRXAFR5H1004
	CHIP RES. 1/10W F 1M Ω or	RRXAFR5Z1004
	RES CHIP 1608 1/10W F 1.00M Ω	RTW1004YF002
R1010	CHIP RES. 1/10W F 120 k Ω or	RRXAFR5H1203
	CHIP RES. 1/10W F 120k Ω or	RRXAFR5Z0124
	RES CHIP 1608 1/10W F 120k Ω	RTW1203YF002
R1011	CHIP RES. 1/10W F 130k Ω or	RRXAFR5H1303
	CHIP RES. 1/10W F 130k Ω or	RRXAFR5Z1303
	RES CHIP 1608 1/10W F 130k Ω	RTW1303YF002
R1012	CHIP RES. 1/10W J 68k Ω or	RRXAJR5Z0683
	RES CHIP 1608 1/10W J 68k Ω	RRXA683YF002
R1013	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1014	CARBON RES. 1/4W J 51k Ω	RCX4JATZ0513
R1015	CHIP RES.(1608) 1/10W F 5.1k Ω or	RRXAFR5H0512
	CHIP RES. 1/10W F 5.1k Ω or	RRXAFR5Z0512
	RES CHIP 1608 1/10W F 5.10k Ω	RTW5101YF002
R1020	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1040	CARBON RES. 1/4W J 4.7k Ω	RCX4JATZ0472
R1041	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1045	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1046	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R1047	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1048	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1050	CHIP RES. 1/10W J 47k Ω or	RRXAJR5Z0473
	RES CHIP 1608 1/10W J 47k Ω	RRXA473YF002
R1051	CARBON RES. 1/4W J 6.8k Ω	RCX4JATZ0682
R1052	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1053	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1060	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1061	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1062	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1063	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1064	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1065	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1066	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1067	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1068	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1069	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1070	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1071	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1100	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1101	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1102	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1103	CHIP RES. 1/10W J 33 Ω or	RRXAJR5Z0330
	RES CHIP 1608 1/10W J 33 Ω	RRXA330YF002
R1110	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1111	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1112	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1113	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1114	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1115	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1116	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1117	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1118	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1119	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1120	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1121	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1160	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1161	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1162	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1163	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1164	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1165	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1166	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1167	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1168	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1169	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1170	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1171	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1210	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1211	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1212	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1213	CHIP RES. 1/10W J 5.1k Ω or	RRXAJR5Z0512
	RES CHIP 1608 1/10W J 5.1k Ω	RRXA512YF002
R1214	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1215	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1216	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1217	CARBON RES. 1/4W J 5.1k Ω	RCX4JATZ0512
R1218	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1219	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1220	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1221	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1260	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1261	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1262	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1263	CARBON RES. 1/4W J 5.1k Ω	RCX4JATZ0512
R1264	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1265	CHIP RES. 1/10W J 20k Ω or	RRXAJR5Z0203
	RES CHIP 1608 1/10W J 20k Ω	RRXA203YF002
R1266	CHIP RES. 1/10W F 750 Ω or	RRXAFR5H7500
	CHIP RES. RMC1/067500FTP or	RRXAFR5Z7500
	RES CHIP 1608 1/10W F 750 Ω	RTW7500YF002
R1267	CARBON RES. 1/4W J 5.1k Ω	RCX4JATZ0512
R1268	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1269	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1270	CHIP RES. 1/10W J 1M Ω or	RRXAJR5Z0105
	RES CHIP 1608 1/10W J 1.0M Ω	RRXA105YF002
R1271	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1500	CHIP RES. 1/10W F 47.0 k Ω or	RRXAFR5H4702
	CHIP RES.(1608) 1/10W F 47k Ω or	RRXAFR5Z4702
	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702YF002
R1501	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1504	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002

Ref. No.	Description	Part No.
R1506	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1507	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1508	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1509	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1510	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1511	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1550	CHIP RES. 1/10W F 47.0 k Ω or	RRXAFR5H4702
	CHIP RES.(1608) 1/10W F 47k Ω or	RRXAFR5Z4702
	RES CHIP 1608 1/10W F 47.0k Ω	RTW4702YF002
R1551	CHIP RES. 1/10W F 1.0k Ω or	RRXAFR5H1001
	CHIP RES. 1/10W F 1k Ω or	RRXAFR5Z1001
	RES CHIP 1608 1/10W F 1.00k Ω	RTW1001YF002
R1554	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1555	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1556	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1557	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1558	CARBON RES. 1/4W J 100k Ω	RCX4JATZ0104
R1559	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1560	CHIP RES. 1/10W J 100k Ω or	RRXAJR5Z0104
	RES CHIP 1608 1/10W J 100k Ω	RRXA104YF002
R1561	CHIP RES. 1/10W J 10k Ω or	RRXAJR5Z0103
	RES CHIP 1608 1/10W J 10k Ω	RRXA103YF002
R1703	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
R1901⚠	RES CARBON 1/2W J 1M Ω or	RCX2105DP006
⚠	GLASS GLAZE RES. 1/2W J 1M Ω	RXX2JZLZ0105
R1902⚠	RES CARBON 1/2W J 1M Ω or	RCX2105DP006
⚠	GLASS GLAZE RES. 1/2W J 1M Ω	RXX2JZLZ0105
R1930	CARBON RES. 1/4W J 47 Ω	RCX4JATZ0470
R1931	CARBON RES. 1/4W J 47k Ω	RCX4JATZ0473
R1932	PCB JUMPER D0.6-P5.0	JW5.0T
R1933	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R1934	CARBON RES. 1/4W J 1.2k Ω	RCX4JATZ0122
R1936	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R1937	METAL OXIDE FILM RES. 2W J 0.33 Ω or	RN02R33DP004
	METAL OXIDE FILM RES. 2W J 0.33 Ω	RN02R33ZU001
R1939	CARBON RES. 1/4W J 2.2k Ω	RCX4JATZ0222
R1940	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R1941	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R1942	CARBON RES. 1/4W J 680k Ω	RCX4JATZ0684
R1943	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R1944	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R1945	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R1946	CARBON RES. 1/4W J 220k Ω	RCX4JATZ0224
R1948	METAL OXIDE FILM RES. 1W J 56k Ω or	RN01563DP003
	METAL OXIDE FILM RES. 1W J 56k Ω	RN01563ZU001
R1950	CARBON RES. 1/4W J 330 Ω	RCX4JATZ0331
R1951	CARBON RES. 1/4W J 390 Ω	RCX4JATZ0391
R1970	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R1971	CARBON RES. 1/4W J 3.9k Ω	RCX4JATZ0392
R1973	CARBON RES. 1/4W J 150 Ω	RCX4JATZ0151
R1974	CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5H5601
	CHIP RES. 1/10W F 5.6k Ω or	RRXAFR5Z5601
	RES CHIP 1608 1/10W F 5.60k Ω	RTW5601YF002
R1975	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801

Ref. No.	Description	Part No.
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1976	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5H6801
	CHIP RES. 1/10W F 6.8k Ω or	RRXAFR5Z6801
	RES CHIP 1608 1/10W F 6.80k Ω	RTW6801YF002
R1977	CHIP RES. 1/10W F 8.2k Ω or	RRXAFR5H8201
	CHIP RES.(1608) 1/10W F 8.2k Ω or	RRXAFR5Z8201
	RES CHIP 1608 1/10W F 8.20k Ω	RTW8201YF002
R1980	CHIP RES. 1/10W J 100 Ω or	RRXAJR5Z0101
	RES CHIP 1608 1/10W J 100 Ω	RRXA101YF002
R1981	CHIP RES. 1/10W J 1k Ω or	RRXAJR5Z0102
	RES CHIP 1608 1/10W J 1.0k Ω	RRXA102YF002
R1983	CARBON RES. 1/4W J 1k Ω	RCX4JATZ0102
R1984	PCB JUMPER D0.6-P5.0	JW5.0T
R1985	CHIP RES. 1/10W J 22k Ω or	RRXAJR5Z0223
	RES CHIP 1608 1/10W J 22k Ω	RRXA223YF002
R1986	CHIP RES. 1/10W J 3.3k Ω or	RRXAJR5Z0332
	RES CHIP 1608 1/10W J 3.3k Ω	RRXA332YF002
R1987	CHIP RES. 1/10W J 2.2k Ω or	RRXAJR5Z0222
	RES CHIP 1608 1/10W J 2.2k Ω	RRXA222YF002
	MISCELLANEOUS	
AC1901⚠	AC CORD CEE 1800MM BLACK	WAE0182LW003
B42	HEAT SINK PMI ASSEMBLY A71F0UH	1EM424257
BC1000	PCB JUMPER D0.6-P5.0	JW5.0T
BC1931	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
BC1932	BEADS INDUCTOR FBR07HA121SB-00	LLBF00STU030
F1901⚠	FUSE 4A/250V(PB FREE) 0215004.MXP	PBGZ20BAG021
FH1901	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
FH1902	FUSE HOLDER MSF-015 LF (B110)	XH01Z00LY002
L7	SCREW B-TIGHT D3X8 BIND HEAD+	GBJB3080
SA1901⚠	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
⚠	VARISTOR 10D 471K SVR	NVQZVR10D471
SA1902⚠	SURGE ABSORBER 470V+-10PER or	NVQZ10D471KB
⚠	VARISTOR 10D 471K SVR	NVQZVR10D471
T1050⚠	TRANS INVERTER ETJV23ZF2RAC or	LTZ2PZ0MS011
⚠	TRANS INVERTER HVT-133 or	LTZ3PC0XB004
⚠	TRANS INVERTER TK.7603A.101	LTZ3PCDAR003
T1100⚠	TRANS INVERTER ETJV23ZF2RAC or	LTZ2PZ0MS011
⚠	TRANS INVERTER HVT-133 or	LTZ3PC0XB004
⚠	TRANS INVERTER TK.7603A.101	LTZ3PCDAR003
T1150⚠	TRANS INVERTER ETJV23ZF2RAC or	LTZ2PZ0MS011
⚠	TRANS INVERTER HVT-133 or	LTZ3PC0XB004
⚠	TRANS INVERTER TK.7603A.101	LTZ3PCDAR003
T1200⚠	TRANS INVERTER ETJV23ZF2RAC or	LTZ2PZ0MS011
⚠	TRANS INVERTER HVT-133 or	LTZ3PC0XB004
⚠	TRANS INVERTER TK.7603A.101	LTZ3PCDAR003
T1250⚠	TRANS INVERTER ETJV23ZF2RAC or	LTZ2PZ0MS011
⚠	TRANS INVERTER HVT-133 or	LTZ3PC0XB004
⚠	TRANS INVERTER TK.7603A.101	LTZ3PCDAR003
T1902⚠	COIL CHOKE JCC41-0022 / 45MH or	LLEE0Z0XB004
⚠	CHOKE COIL LLEE0Z0ZB001	LLEE0Z0ZB001
T1951⚠	TRANS POWER 8722	LTT3PE0KT044
TM1901	EYELET TYPE D-1	0VM406868
TM1902	EYELET TYPE D-1	0VM406868

Ref. No.	Description	Part No.
	MISCELLANEOUS	
TU501⚠	TUNER UNIT DTV ENG37E06KF	UTUNDVTMS002

LT6-M32BB
A8CF0EP
2008-05-26